

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383585

Luminaire Tested: **GAN-SA8D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56749.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

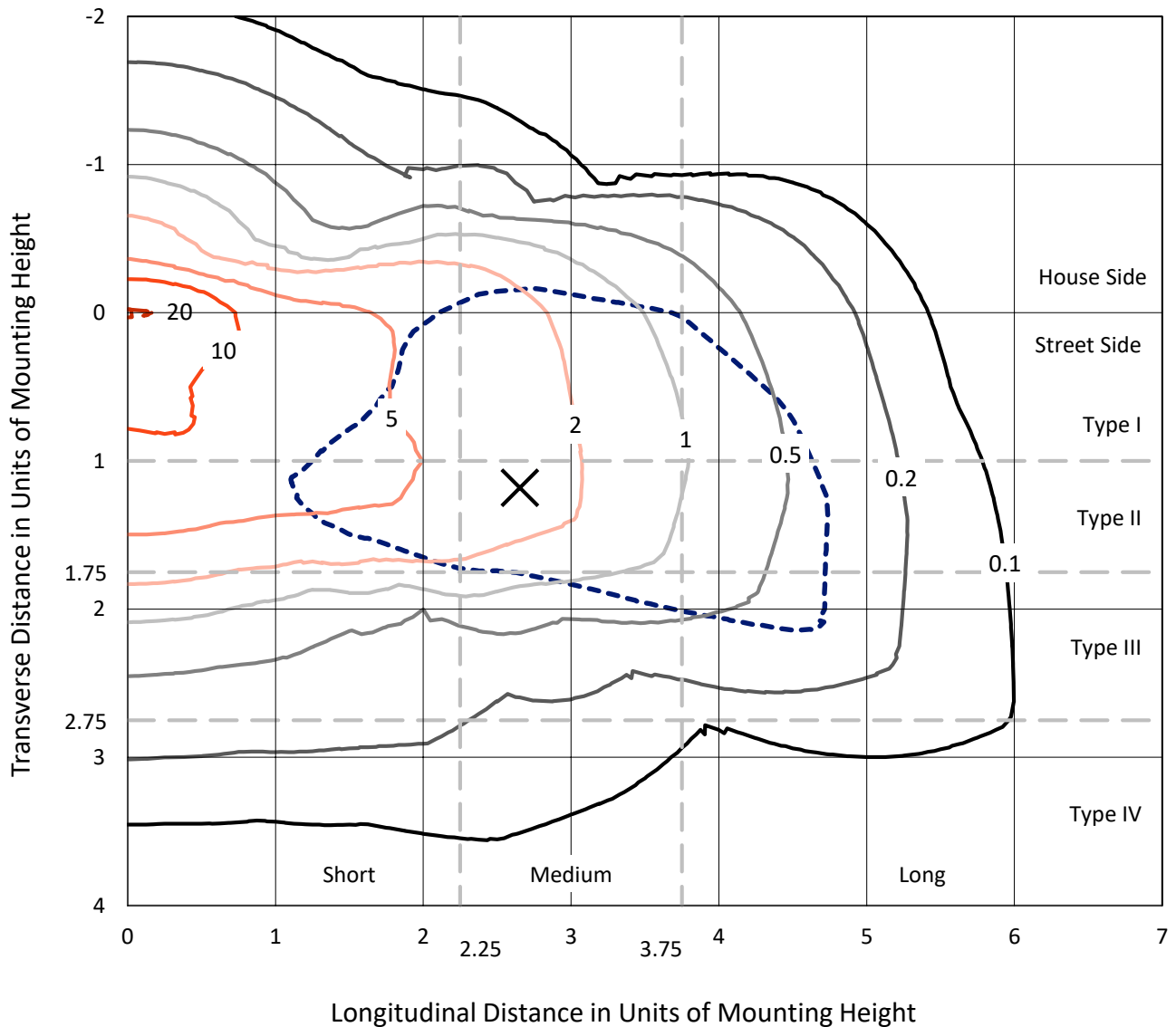
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

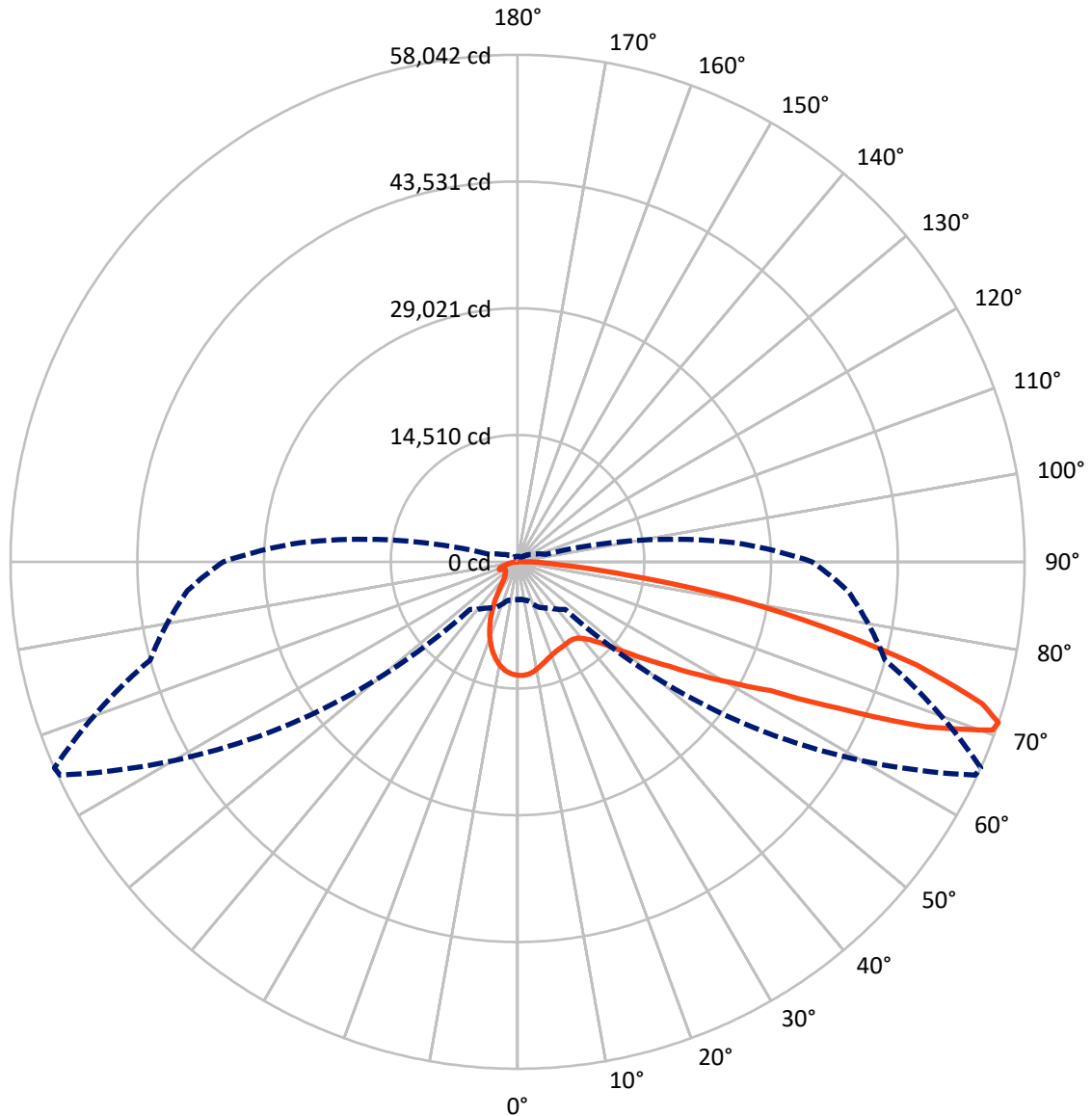
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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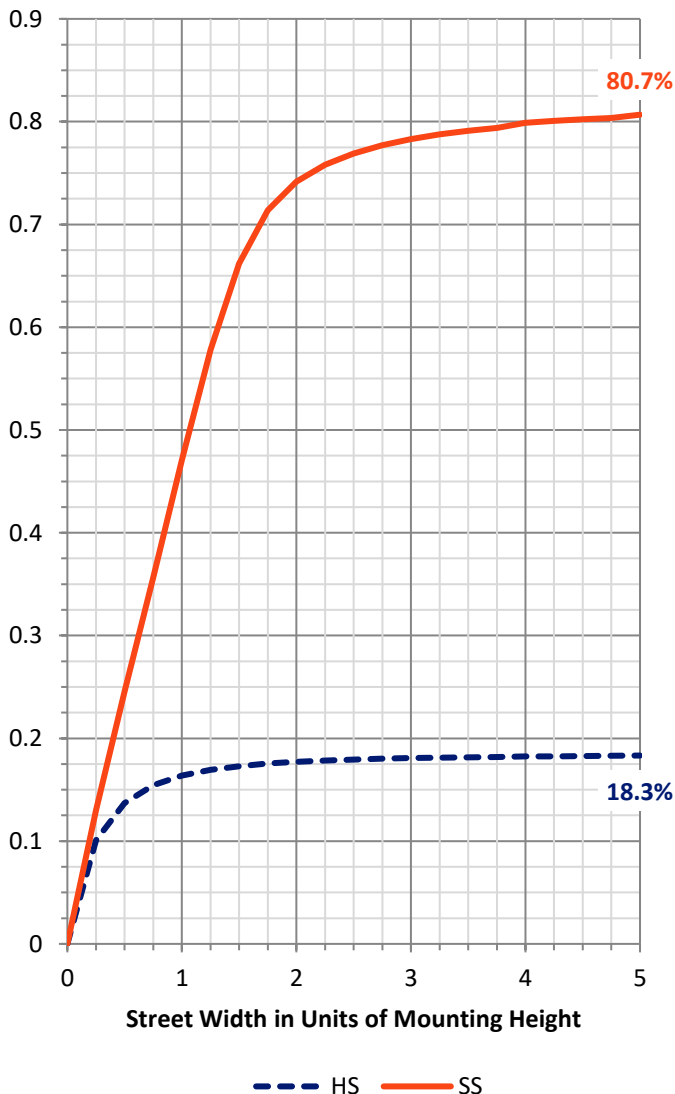
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10517.3	0.0	10517.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	46232.6	0.0	46232.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	56749.9	0.0	56749.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1144.3	2.0
10°-20°	2744.6	4.8
20°-30°	3686.7	6.5
30°-40°	4849.8	8.5
40°-50°	7055.2	12.4
50°-60°	11020.9	19.4
60°-70°	13805.5	24.3
70°-80°	10530.5	18.6
80°-90°	1912.2	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	56749.9	100.0
0°-180°	56749.9	100.0

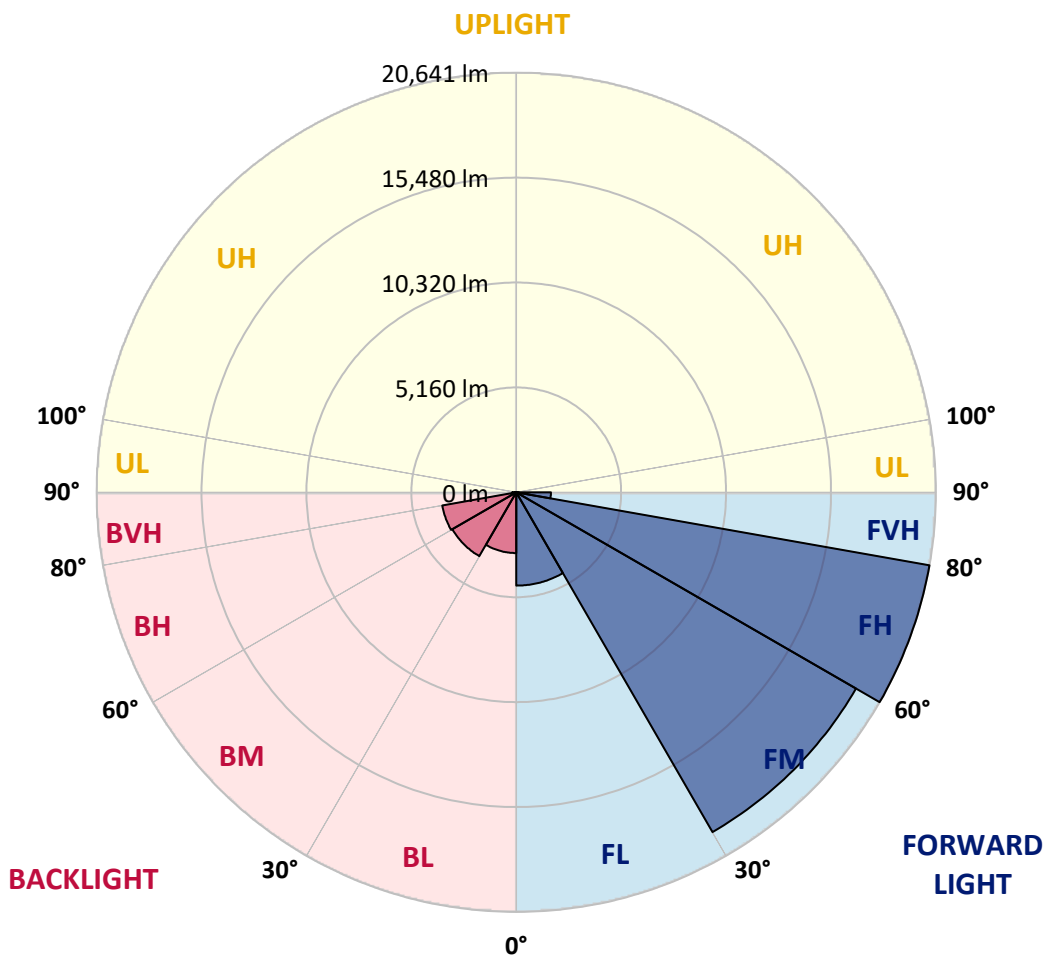


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4589.0	8.1			
FM (30°-60°)	19297.8	34.0			
FH (60°-80°)	20640.5	36.4			G5
FVH (80°-90°)	1705.2	3.0			G5
BL (0°-30°)	2986.6	5.3	B4/5000		
BM (30°-60°)	3628.1	6.4	B3/5000		
BH (60°-80°)	3695.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	207.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3
2.5°	12759.3	12739.7	12798.4	12859.3	12882.7	12922.0	12980.7	13014.0	13012.0	13017.9	12998.3
5°	11912.8	11887.4	12004.9	12101.0	12285.2	12492.8	12745.6	12925.9	12929.8	13031.6	13059.1
7.5°	11111.5	11093.9	11229.1	11383.8	11597.4	11914.8	12324.3	12712.3	12735.7	13012.0	13108.1
10°	10468.8	10464.9	10596.2	10764.7	11013.5	11368.1	11838.4	12406.6	12441.8	12918.1	13115.9
12.5°	9967.2	9975.1	10088.7	10280.7	10543.3	10913.5	11423.0	12063.7	12120.6	12769.1	13070.8
15°	9596.9	9628.3	9720.3	9914.3	10173.0	10549.1	11072.3	11746.3	11832.5	12602.5	13045.4
17.5°	9385.2	9420.6	9485.2	9645.9	9888.8	10251.3	10747.1	11485.7	11564.1	12475.2	13047.3
20°	9322.6	9352.0	9389.3	9487.2	9692.9	10022.1	10490.3	11250.6	11334.9	12373.3	13066.9
22.5°	9446.1	9467.6	9471.5	9463.7	9589.1	9857.5	10304.2	11078.2	11168.3	12306.7	13080.6
25°	9710.5	9740.0	9718.4	9645.9	9604.7	9769.3	10208.2	10964.5	11054.7	12257.7	13053.2
27.5°	10108.3	10112.2	10094.6	10000.5	9806.6	9779.1	10178.8	10897.9	10984.2	12200.9	12996.4
30°	10649.1	10674.5	10643.2	10515.9	10198.4	9935.9	10214.1	10833.2	10911.6	12128.4	12904.3
32.5°	11282.0	11344.7	11342.7	11209.4	10754.9	10286.6	10359.1	10794.0	10854.8	12052.0	12792.6
35°	11938.3	12024.5	12185.2	12128.4	11566.1	10841.1	10637.3	10856.7	10897.9	12042.2	12714.2
37.5°	12620.1	12706.4	13037.6	13190.3	12532.0	11634.7	11076.2	11078.2	11097.8	12161.7	12708.4
40°	13333.4	13425.5	13923.2	14320.9	13784.0	12639.8	11783.5	11540.6	11519.1	12455.6	12824.0
42.5°	14332.7	14415.0	15012.5	15520.0	15173.2	13927.1	12761.3	12253.8	12208.7	13031.6	13194.3
45°	15596.4	15667.0	16301.8	16844.5	16666.2	15396.6	13989.8	13235.4	13227.6	13991.8	13944.7
47.5°	17099.3	17154.2	17724.3	18249.4	18314.0	17087.5	15533.7	14750.0	14622.6	15308.4	15106.6
50°	18664.8	18725.5	19113.5	19677.7	20157.9	19350.6	17520.5	16605.5	16435.0	17046.4	16752.5
52.5°	19701.3	19781.6	20118.6	20833.8	22230.8	21831.1	19869.8	18854.8	18596.2	19152.6	18927.4
55°	19238.9	19419.1	19934.5	21080.6	23888.4	25620.4	22767.7	21478.4	21186.5	21648.9	21515.7
57.5°	17136.5	17383.3	18086.7	19856.0	24121.6	28959.2	27148.7	24568.4	24362.6	24229.4	24290.1
60°	13294.2	13531.3	14403.2	16709.4	22497.2	31396.7	33742.0	28377.3	28079.5	26819.6	26874.5
62.5°	9408.8	9289.3	9886.9	11573.9	18280.8	31682.7	41244.4	33471.6	32491.9	29554.8	29313.8
65°	7175.2	7147.7	7416.1	7953.0	11072.3	28259.7	45713.6	42033.9	40503.7	32772.1	32203.9
67.5°	5895.7	5846.7	6111.2	6893.0	7130.1	18231.8	45811.6	51967.9	50465.1	36777.0	35546.6
70°	4847.4	4792.5	5039.5	6048.5	6589.3	9246.2	38556.1	57785.2	57704.9	41847.8	38070.2
71°	4345.9	4306.6	4602.5	5723.2	6473.7	7706.1	33289.4	57800.9	58041.8	43564.2	37921.3
72.5°	3538.6	3552.3	3865.8	5094.4	6387.5	6804.9	24466.4	55106.7	55616.2	45200.3	36567.3
75°	2351.2	2363.0	2774.4	3918.7	6193.5	6657.9	13447.1	46240.7	47177.3	44220.6	33367.8
77.5°	1579.3	1575.3	1855.5	2688.3	5396.1	6657.9	7884.4	34584.5	35613.2	35186.0	25724.3
80°	1087.4	1079.6	1277.5	1855.5	4085.2	6738.3	6095.6	24237.2	24548.7	19001.8	10455.1
82.5°	666.1	672.0	834.7	1310.8	2780.3	6064.2	5754.6	13215.9	12876.9	5329.5	2611.8
85°	382.0	380.1	532.9	887.6	1784.9	5117.8	5611.5	5688.0	5217.8	1604.7	944.4
87.5°	137.1	146.9	286.1	491.8	1022.7	3564.1	4761.2	2958.6	2666.6	724.9	427.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3	13000.3
2.5°	12984.7	12996.4	12982.7	12904.3	12837.7	12729.9	12669.1	12584.9	12559.4	12547.7	12579.1
5°	13033.6	13037.6	12922.0	12716.2	12485.0	12212.7	12016.7	11775.7	11662.0	11613.0	11644.4
7.5°	13078.6	13061.0	12808.3	12414.5	11987.3	11513.2	11091.8	10705.9	10480.6	10388.5	10396.4
10°	13084.5	13010.1	12604.5	11995.2	11332.9	10637.3	9990.8	9395.1	9018.9	8774.0	8848.4
12.5°	13023.8	12898.4	12304.7	11452.4	10533.5	9585.2	8711.3	7817.8	7281.0	7032.2	7040.0
15°	12976.8	12749.5	11936.4	10813.7	9579.3	8323.3	7130.1	6079.8	5507.8	5253.0	5133.5
17.5°	12937.6	12588.8	11509.3	10094.6	8452.7	6859.7	5425.4	4488.8	4175.4	4101.0	4069.6
20°	12882.7	12418.4	11033.1	9261.8	7169.3	5221.7	3961.8	3499.4	3501.4	3587.6	3599.3
22.5°	12806.4	12224.4	10525.6	8327.3	5791.8	3803.1	3105.6	2972.4	3107.5	3272.2	3301.5
25°	12692.7	11995.2	9961.3	7294.7	4416.4	2923.4	2653.0	2647.1	2811.7	2984.1	3009.6
27.5°	12532.0	11695.4	9334.4	6185.7	3254.5	2484.4	2376.7	2417.8	2539.3	2664.7	2674.5
30°	12316.5	11346.6	8642.7	5015.9	2551.0	2212.1	2200.3	2237.6	2312.0	2400.2	2408.1
32.5°	12079.4	10992.0	7904.0	3883.4	2184.7	2065.1	2076.9	2094.6	2129.8	2165.1	2172.9
35°	11863.9	10629.5	7147.7	2950.8	2010.3	1969.1	1961.3	1957.4	1961.3	1949.5	1951.5
37.5°	11724.7	10329.7	6360.0	2349.3	1910.3	1884.9	1861.4	1832.0	1798.7	1779.1	1783.0
40°	11673.8	10106.4	5562.6	2029.8	1828.1	1810.5	1765.4	1702.7	1663.5	1651.7	1651.7
42.5°	11811.0	9990.8	4792.5	1869.2	1759.5	1730.1	1655.6	1583.2	1553.7	1551.8	1549.8
45°	12230.3	10037.8	4059.8	1781.0	1696.8	1640.0	1542.0	1481.3	1461.7	1465.6	1463.6
47.5°	12982.7	10333.7	3432.8	1722.2	1634.1	1559.7	1450.0	1401.0	1377.4	1377.4	1379.3
50°	14262.1	11025.2	2933.2	1673.2	1581.2	1485.2	1383.3	1322.5	1291.2	1289.3	1289.3
52.5°	16125.5	12263.5	2621.7	1632.2	1522.4	1418.6	1316.6	1240.3	1203.0	1195.2	1191.3
55°	18461.0	14038.8	2535.4	1604.7	1444.1	1346.1	1236.3	1160.0	1118.8	1101.2	1099.2
57.5°	21072.8	16197.9	2705.9	1571.4	1363.7	1259.8	1148.2	1075.7	1032.6	1011.0	1009.1
60°	23716.0	18555.0	3401.5	1524.4	1297.1	1165.8	1058.1	991.4	948.3	924.8	920.9
62.5°	26363.1	21039.6	4822.0	1520.5	1250.0	1075.7	965.9	909.1	868.0	842.5	836.6
65°	29349.2	23759.1	6436.4	1624.3	1234.4	993.4	871.9	826.8	791.5	768.1	766.1
67.5°	32778.0	26829.4	6281.7	1837.9	1287.3	919.0	783.7	748.5	723.0	703.4	701.5
70°	34386.6	26349.4	3905.0	1988.8	1361.7	846.4	699.5	674.0	654.4	640.7	634.8
71°	33712.6	25018.9	3274.1	1971.1	1353.9	815.1	666.1	646.6	627.0	615.2	609.3
72.5°	31874.8	22816.7	2731.3	1833.9	1265.8	758.3	623.1	603.5	585.9	572.2	568.2
75°	28602.6	20377.2	2186.6	1465.6	1009.1	640.7	546.6	525.1	511.4	503.6	495.7
77.5°	21025.8	14542.3	1690.9	1158.0	742.6	523.2	466.3	450.7	436.9	425.2	419.3
80°	8054.9	5633.2	1138.4	864.1	544.7	413.4	376.2	368.3	354.6	346.8	346.8
82.5°	2169.0	1683.1	607.4	523.2	364.4	301.7	288.0	284.1	272.4	256.6	258.6
85°	877.8	742.6	340.9	288.0	223.4	178.3	193.9	195.9	182.2	162.6	164.6
87.5°	386.0	315.4	190.0	127.3	98.0	68.6	88.1	88.1	80.3	66.6	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)