

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: P323822

Luminaire Tested: **GAN-SA8D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45963 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

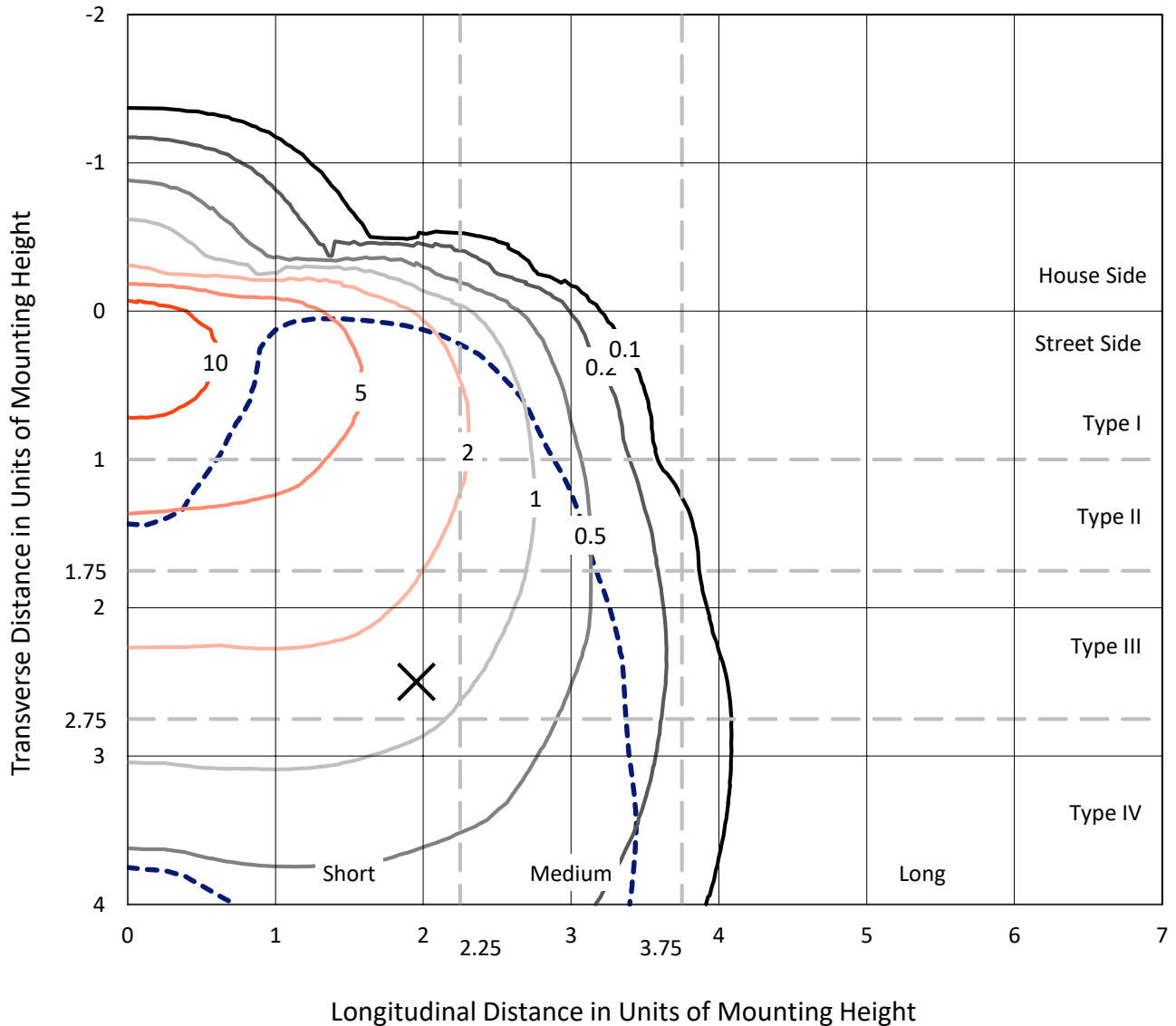
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

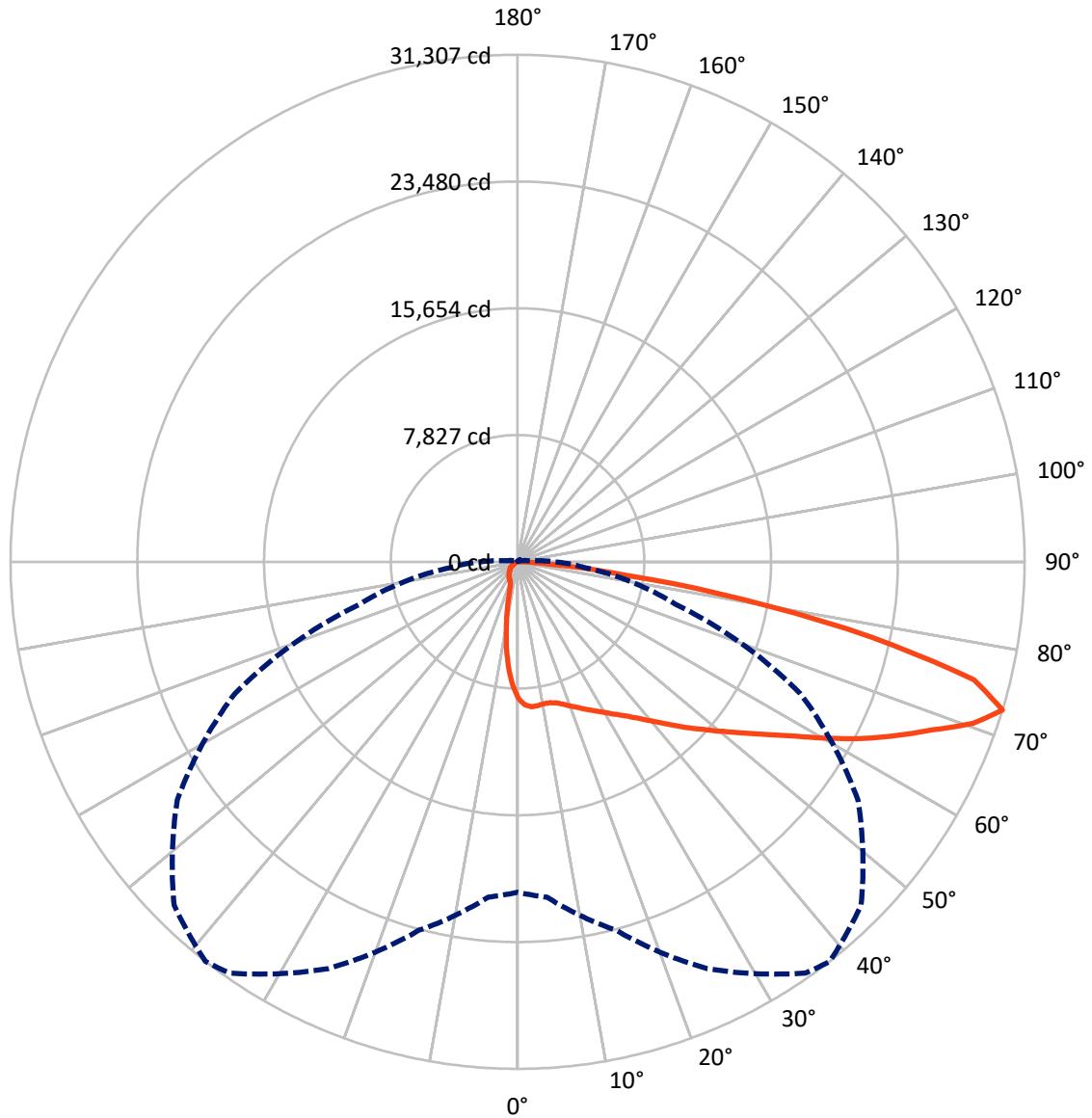
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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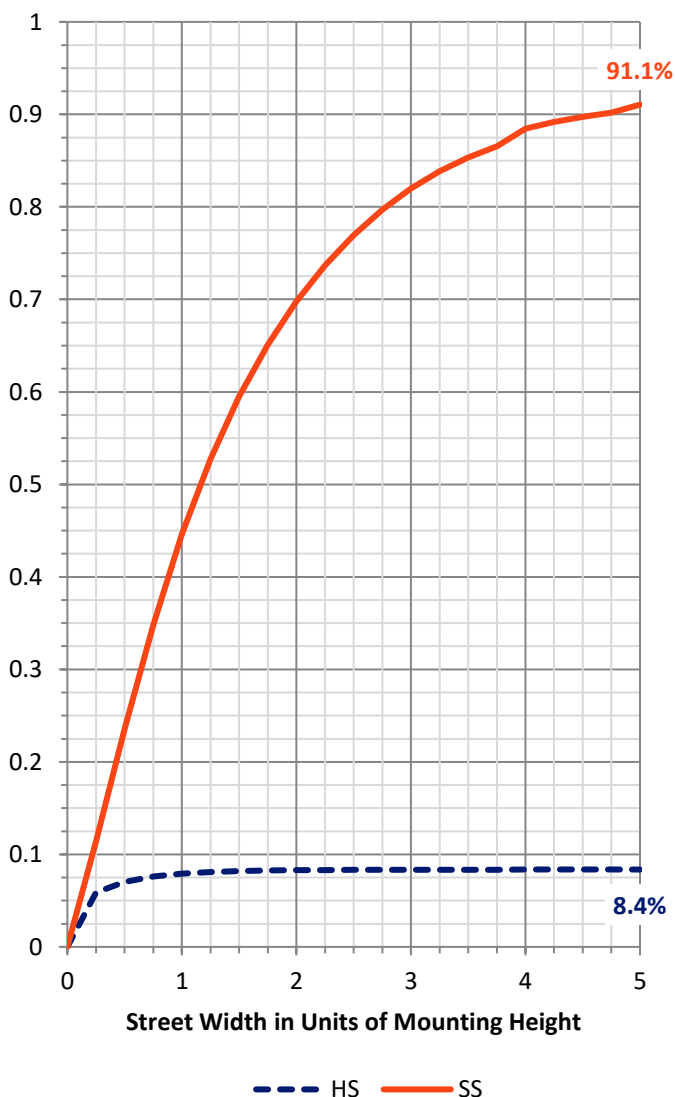
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3868.0	0.0	3868.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	42095.0	0.0	42095.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	45963.0	0.0	45963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.3	1.6
10°-20°	1761.3	3.8
20°-30°	2801.3	6.1
30°-40°	4211.5	9.2
40°-50°	6425.0	14.0
50°-60°	9080.6	19.8
60°-70°	11390.2	24.8
70°-80°	8516.7	18.5
80°-90°	1056.0	2.3
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°	45963.0	100.0
0°-180°	45963.0	100.0

Coefficient of Utilization

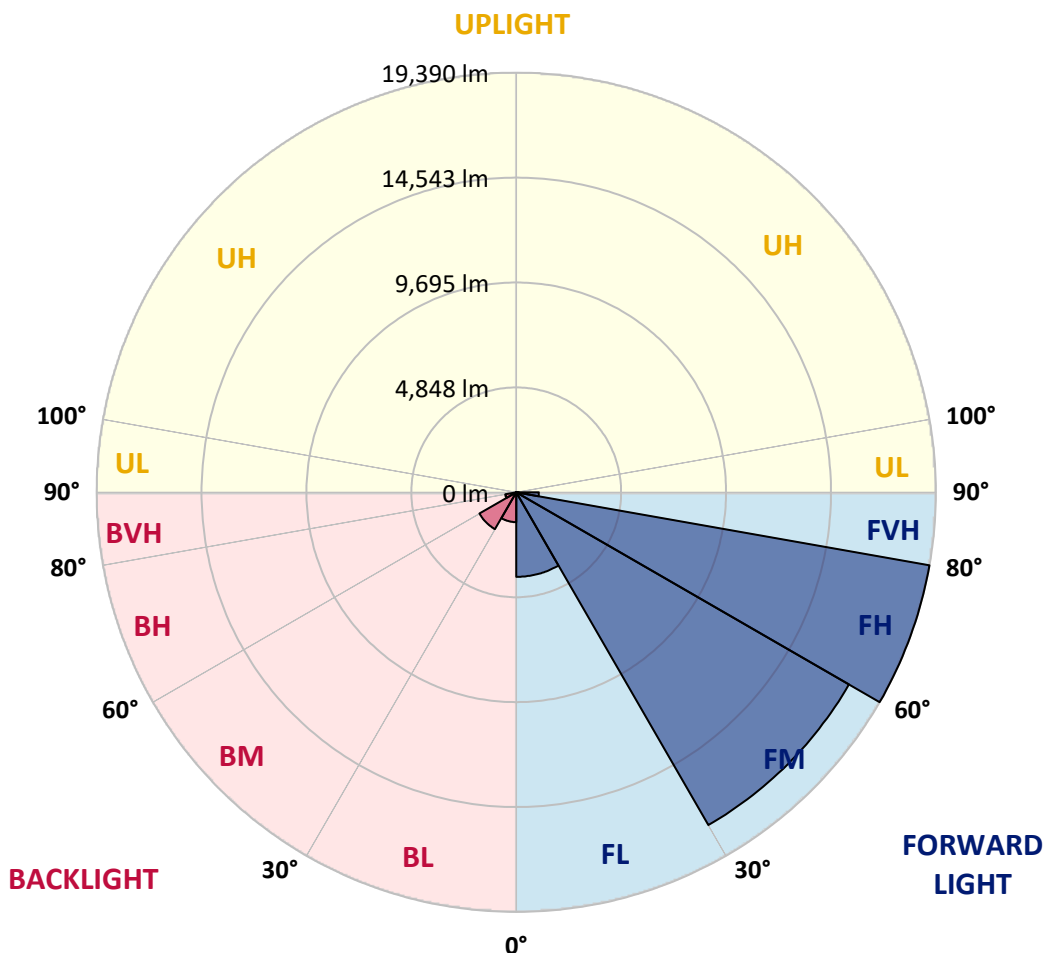


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3905.7	8.5			
FM (30°-60°)	17752.9	38.6			
FH (60°-80°)	19390.2	42.2			G5
FVH (80°-90°)	1046.2	2.3			G5
BL (0°-30°)	1377.2	3.0	B3/2500		
BM (30°-60°)	1964.2	4.3	B2/2500		
BH (60°-80°)	516.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4
2.5°	8971.7	8973.6	8952.6	8918.2	8874.3	8851.4	8813.2	8752.1	8687.2	8570.8	8444.8
5°	9154.9	9154.9	9128.2	9082.4	9011.7	8990.7	8918.2	8820.9	8687.2	8498.3	8286.4
7.5°	9135.8	9139.6	9103.4	9055.6	8985.0	8965.9	8878.1	8769.3	8603.2	8374.2	8103.1
10°	9036.6	9046.1	9017.5	8994.6	8929.7	8908.7	8826.6	8717.8	8551.7	8307.4	7996.2
12.5°	8935.4	8944.9	8954.5	8975.5	8935.4	8927.8	8862.8	8771.2	8612.8	8358.9	8007.7
15°	8870.5	8889.6	8958.3	9040.4	9049.9	9042.3	9000.3	8914.4	8754.0	8490.6	8089.8
17.5°	8870.5	8901.0	9044.2	9200.7	9256.1	9261.8	9225.5	9105.3	8914.4	8631.9	8166.1
20°	8944.9	8986.9	9210.3	9431.7	9523.3	9523.3	9452.7	9284.7	9061.4	8759.8	8217.7
22.5°	9135.8	9191.2	9471.8	9727.6	9824.9	9803.9	9708.5	9464.1	9214.1	8904.8	8282.6
25°	9511.9	9553.9	9845.9	10103.6	10162.8	10115.1	9994.8	9681.8	9408.8	9101.5	8400.9
27.5°	9996.7	10002.4	10304.0	10521.7	10485.4	10452.9	10302.1	9954.7	9689.4	9382.1	8605.2
30°	10529.3	10529.3	10794.6	10960.7	10850.0	10823.3	10672.5	10285.0	10048.3	9763.8	8895.3
32.5°	11044.7	11067.6	11283.3	11388.3	11264.2	11237.5	11090.5	10703.0	10525.5	10346.0	9347.7
35°	11542.9	11560.1	11764.3	11821.6	11703.2	11710.9	11605.9	11277.6	11210.8	11187.8	10029.2
37.5°	12025.8	12029.7	12237.7	12274.0	12214.8	12279.7	12289.3	11999.1	12123.2	12308.3	10989.3
40°	12466.8	12470.6	12676.8	12770.3	12871.5	12955.5	13029.9	12875.3	13285.7	13715.2	12132.7
42.5°	12819.9	12860.0	13121.5	13299.0	13566.3	13726.6	13929.0	13921.3	14669.6	15314.8	13514.7
45°	13131.1	13199.8	13564.4	13875.5	14333.7	14589.4	14906.3	15154.5	16227.2	17095.8	14913.9
47.5°	13541.5	13606.4	14022.5	14532.2	15143.0	15479.0	16003.9	16540.3	17939.5	18844.3	16280.7
50°	14119.9	14091.2	14501.6	15232.7	16017.3	16458.2	17206.5	18010.1	19638.4	20367.6	17084.3
52.5°	14736.4	14725.0	15028.5	15994.4	17048.1	17563.4	18552.2	19529.6	21262.8	21417.4	17452.7
55°	15500.0	15417.9	15673.7	16862.9	18271.6	18825.2	19989.6	21033.8	22557.0	22009.2	17637.9
57.5°	16299.8	16164.2	16408.6	17830.7	19651.7	20306.5	21581.6	22499.8	23417.9	22413.9	17636.0
60°	17126.3	16966.0	17256.1	19040.9	21365.9	22123.7	23307.2	23490.5	24221.6	22618.1	17506.2
62.5°	17817.3	17721.9	18153.3	20335.1	23280.5	24024.9	24611.0	24391.4	24899.2	22776.6	17202.7
65°	18548.4	18554.1	19250.9	21845.0	25315.3	25817.4	25867.0	25559.7	25466.1	22744.1	16175.7
67.5°	19537.2	19628.8	20791.3	23895.1	27294.8	27682.3	27678.5	26825.2	25880.4	21453.7	13898.4
70°	20583.3	20799.0	22566.6	26241.1	29455.7	29848.9	29646.5	27630.8	24368.5	17347.7	9836.4
72.5°	20407.7	20781.8	23553.5	27720.5	31007.6	31307.3	29992.1	25651.3	19260.4	10082.6	4188.0
75°	15744.3	16177.6	21596.9	26254.5	29379.3	29110.2	25769.6	19961.0	10525.5	2813.7	943.0
77.5°	8316.9	8547.9	14266.8	20001.1	22908.3	22345.1	18153.3	11073.3	3208.8	696.7	423.8
80°	4356.0	4409.5	6217.2	11348.2	14138.9	14142.8	10758.4	4863.8	1322.8	357.0	284.4
82.5°	2332.6	2378.4	3285.2	5243.6	7408.3	6715.4	4119.3	2676.2	769.3	202.3	273.0
85°	561.2	570.7	1863.1	2395.6	2912.9	2080.7	1223.6	2246.7	208.1	118.3	221.4
87.5°	215.7	219.5	691.0	1036.5	742.5	481.0	572.7	838.0	26.7	45.8	34.4
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°	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4	8452.4
2.5°	8368.5	8318.8	8196.7	8042.0	7904.6	7805.3	7656.4	7559.1	7494.2	7492.3	7467.5
5°	8156.6	8055.4	7792.0	7478.9	7194.5	6938.7	6637.1	6398.5	6221.0	6192.4	6131.3
7.5°	7929.4	7763.3	7358.7	6870.0	6392.8	5907.9	5344.8	4995.5	4695.8	4552.6	4537.4
10°	7790.1	7557.2	6982.6	6276.3	5528.1	4739.7	4002.9	3493.2	3124.8	3019.8	2941.6
12.5°	7761.4	7454.1	6692.5	5719.0	4650.0	3607.8	2792.7	2250.5	1956.6	1863.1	1838.2
15°	7790.1	7406.4	6448.1	5167.3	3760.5	2559.8	1874.5	1559.5	1448.8	1422.1	1420.2
17.5°	7807.2	7349.1	6171.4	4554.5	2897.7	1828.7	1435.5	1343.8	1326.7	1324.8	1328.6
20°	7805.3	7261.3	5841.1	3871.2	2155.1	1437.4	1298.0	1278.9	1275.1	1277.0	1275.1
22.5°	7792.0	7158.2	5478.4	3166.8	1628.3	1284.7	1238.9	1227.4	1225.5	1225.5	1225.5
25°	7816.8	7076.2	5079.5	2493.0	1341.9	1214.0	1185.4	1175.9	1174.0	1174.0	1170.1
27.5°	7906.5	7030.3	4642.4	1918.4	1212.1	1151.0	1128.1	1126.2	1120.5	1118.6	1122.4
30°	8051.6	7030.3	4163.2	1492.7	1133.9	1086.1	1069.0	1065.1	1063.2	1061.3	1063.2
32.5°	8307.4	7083.8	3640.2	1240.8	1059.4	1013.6	1002.2	1007.9	1002.2	1002.2	1002.2
35°	8769.3	7244.1	3092.4	1082.3	981.2	943.0	931.5	939.2	935.3	935.3	933.4
37.5°	9443.1	7541.9	2540.7	986.9	912.4	872.4	857.1	868.5	864.7	864.7	862.8
40°	10264.0	7975.2	2015.8	914.3	845.6	803.6	790.3	796.0	786.5	786.5	790.3
42.5°	11277.6	8525.0	1557.6	843.7	778.8	738.7	731.1	725.4	708.2	698.6	700.6
45°	12403.8	9097.6	1214.0	775.0	715.8	683.4	671.9	656.6	628.0	608.9	610.8
47.5°	13409.8	9538.6	986.9	708.2	658.6	633.7	616.6	587.9	545.9	523.0	524.9
50°	13938.5	9605.4	839.9	641.4	605.1	580.3	555.5	511.6	461.9	437.1	435.2
52.5°	14074.0	9292.3	731.1	580.3	551.7	523.0	490.6	431.4	376.0	349.3	345.5
55°	14123.7	8815.1	633.7	523.0	494.4	461.9	419.9	353.1	301.6	274.9	273.0
57.5°	13959.5	8103.1	557.4	471.5	437.1	397.0	345.5	282.5	232.9	211.9	211.9
60°	13594.9	7139.1	498.2	416.1	378.0	332.1	278.7	219.5	173.7	156.5	156.5
62.5°	12867.6	5890.8	442.9	358.9	322.6	274.9	225.2	166.1	122.2	112.6	114.5
65°	11495.2	4468.6	387.5	307.3	274.9	227.2	175.6	118.3	82.1	82.1	85.9
67.5°	9374.4	3103.8	330.2	261.5	236.7	185.2	133.6	82.1	57.3	64.9	72.5
70°	6205.7	1740.9	282.5	215.7	202.3	147.0	99.3	55.4	45.8	61.1	74.4
72.5°	2342.2	677.6	236.7	173.7	175.6	112.6	70.6	42.0	42.0	66.8	87.8
75°	652.8	332.1	169.9	127.9	137.4	82.1	51.5	36.3	40.1	76.4	103.1
77.5°	383.7	244.3	110.7	74.4	93.5	57.3	34.4	28.6	34.4	64.9	99.3
80°	309.2	129.8	64.9	38.2	51.5	32.5	22.9	17.2	9.5	24.8	51.5
82.5°	309.2	78.3	30.5	26.7	26.7	17.2	11.5	7.6	1.9	0.0	13.4
85°	208.1	32.5	19.1	17.2	13.4	5.7	3.8	1.9	0.0	0.0	0.0
87.5°	34.4	13.4	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)