

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: P319981

Luminaire Tested: **GAN-SA7D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47491 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

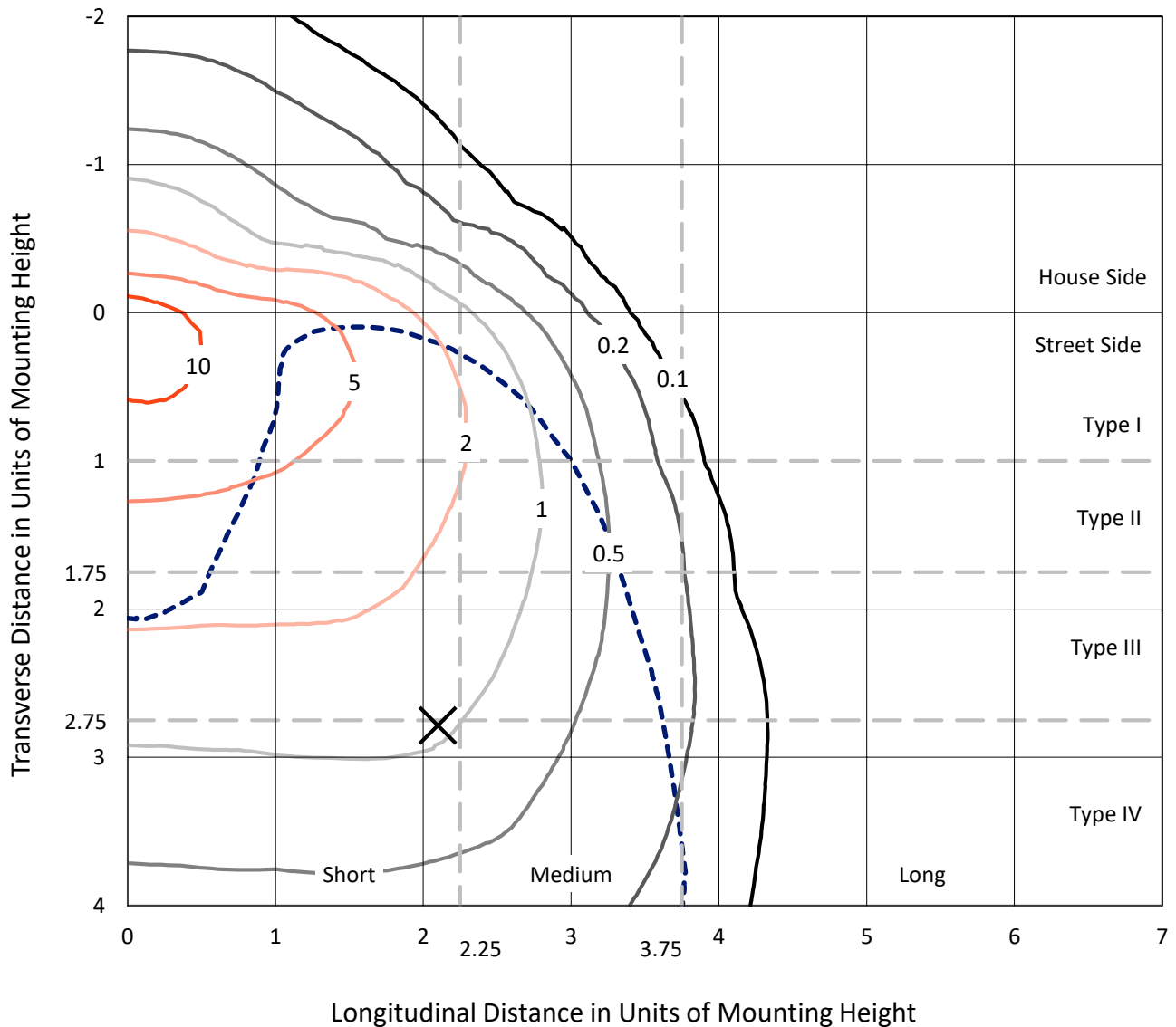
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

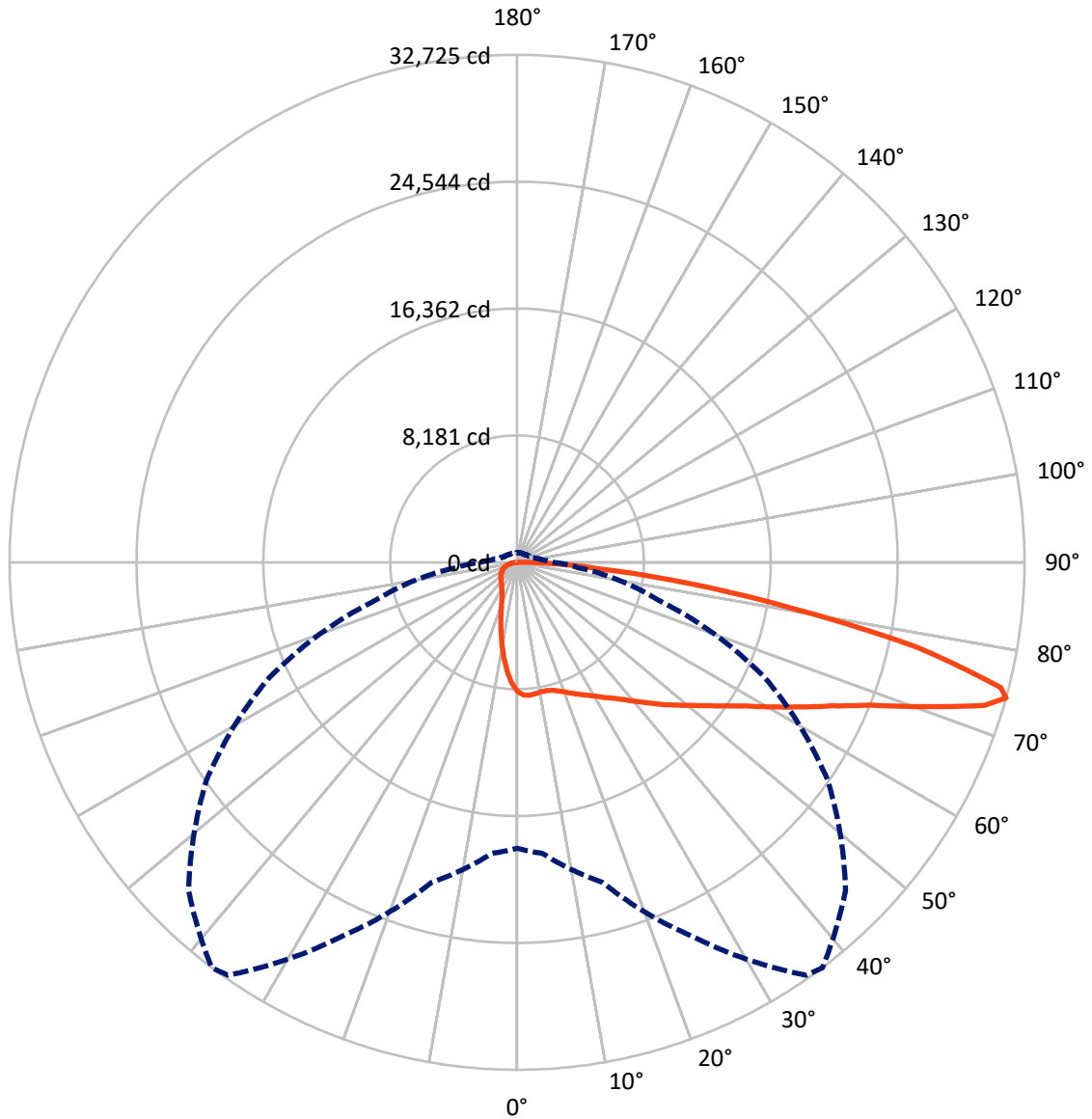
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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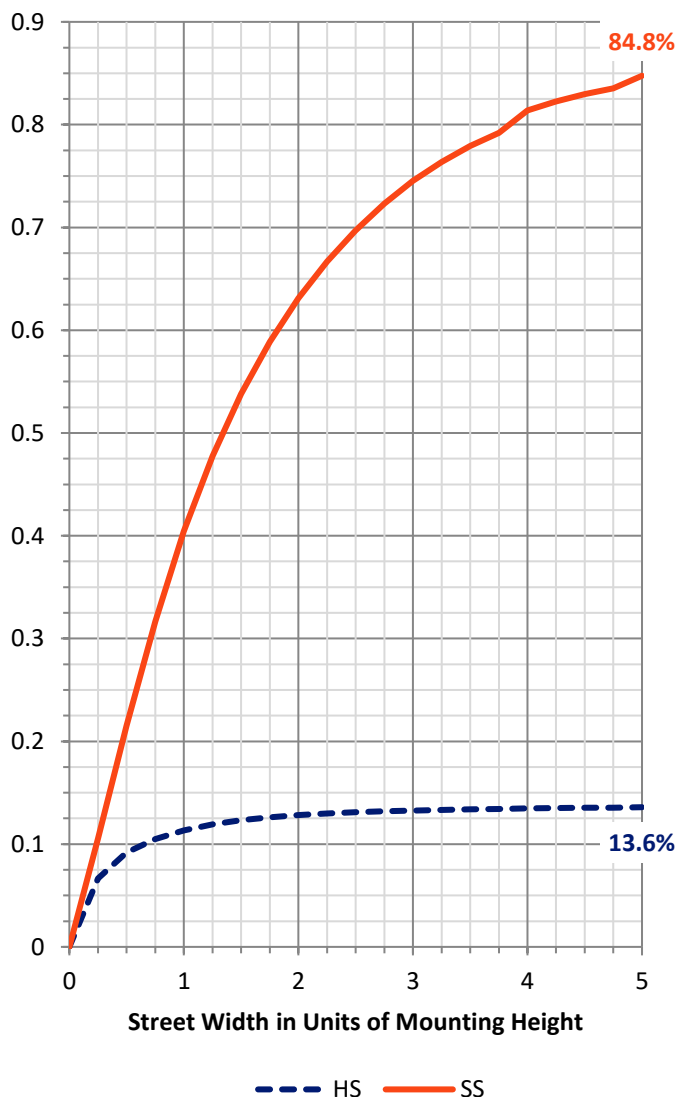
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6534.4	0.0	6534.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	40956.6	0.0	40956.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	47491.0	0.0	47491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.9	1.6
10°-20°	1888.8	4.0
20°-30°	2910.3	6.1
30°-40°	4232.0	8.9
40°-50°	6228.7	13.1
50°-60°	8747.1	18.4
60°-70°	11071.2	23.3
70°-80°	9748.6	20.5
80°-90°	1927.5	4.1
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°	47491.0	100.0
0°-180°	47491.0	100.0

Coefficient of Utilization

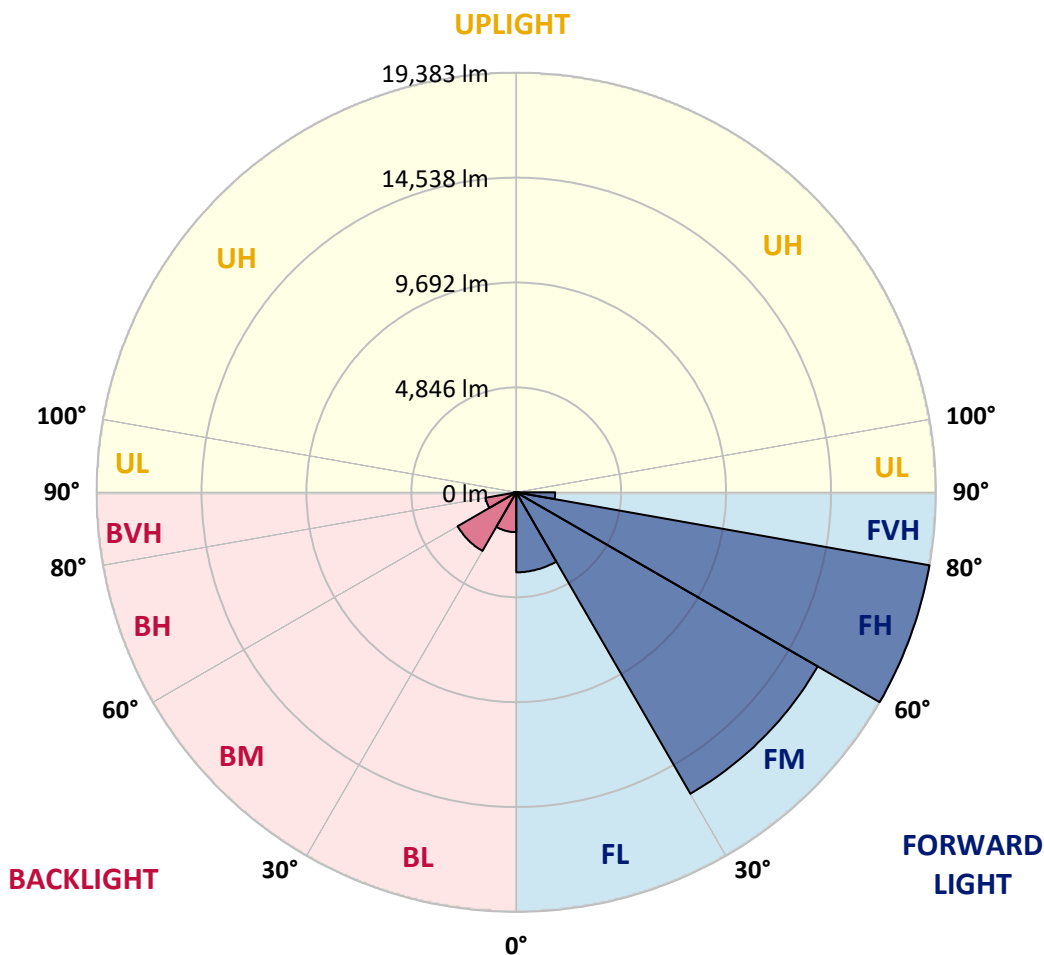


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3695.4	7.8			
FM (30°-60°)	16080.8	33.9			
FH (60°-80°)	19383.4	40.8			G5
FVH (80°-90°)	1797.0	3.8			G5
BL (0°-30°)	1840.6	3.9	B3/2500		
BM (30°-60°)	3127.0	6.6	B3/5000		
BH (60°-80°)	1436.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	130.5	0.3			G2/225
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°	37°	45°	55°	65°	75°	85°
0°	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7
2.5°	8653.8	8655.5	8653.8	8640.4	8608.6	8581.9	8560.1	8528.3	8458.1	8404.5	8324.2
5°	8735.8	8725.7	8719.0	8693.9	8643.8	8613.6	8571.8	8511.6	8396.2	8289.1	8158.6
7.5°	8697.3	8685.6	8670.5	8640.4	8583.5	8558.4	8499.9	8421.3	8282.4	8141.9	7954.5
10°	8578.5	8575.2	8568.5	8561.8	8513.3	8493.2	8439.7	8356.0	8218.8	8048.2	7829.1
12.5°	8446.4	8454.7	8481.5	8516.6	8494.9	8484.8	8451.4	8394.5	8254.0	8070.0	7805.6
15°	8362.7	8386.1	8458.1	8550.1	8568.5	8565.1	8556.8	8520.0	8371.1	8167.0	7859.2
17.5°	8334.3	8372.7	8509.9	8662.2	8715.7	8727.4	8730.7	8667.2	8501.6	8285.8	7914.4
20°	8386.1	8434.6	8635.4	8844.5	8929.8	8936.5	8921.5	8811.0	8625.4	8387.8	7944.5
22.5°	8543.4	8586.9	8837.8	9073.7	9170.7	9180.7	9135.6	8968.3	8755.8	8508.3	7986.3
25°	8846.2	8899.7	9150.6	9386.5	9436.7	9438.4	9373.1	9165.7	8926.5	8677.2	8076.6
27.5°	9241.0	9294.5	9520.3	9751.2	9724.4	9709.4	9620.7	9413.3	9149.0	8909.7	8237.2
30°	9680.9	9739.5	9953.6	10117.6	10054.0	10023.9	9951.9	9684.3	9458.4	9227.6	8483.2
32.5°	10136.0	10189.5	10376.9	10488.9	10408.6	10395.3	10286.5	10042.3	9861.6	9712.7	8881.3
35°	10602.7	10641.2	10825.2	10888.8	10781.7	10778.3	10748.2	10524.1	10410.3	10480.6	9460.1
37.5°	11079.5	11089.5	11246.8	11250.1	11218.3	11231.7	11263.5	11123.0	11154.7	11373.9	10212.9
40°	11504.4	11531.1	11644.9	11680.0	11735.2	11782.1	11941.0	11849.0	12094.9	12483.0	11149.7
42.5°	11818.9	11870.7	12053.1	12143.4	12322.4	12396.0	12620.2	12705.5	13200.7	13782.8	12263.9
45°	12084.9	12165.2	12457.9	12643.6	12946.4	13075.2	13396.4	13682.5	14450.3	15193.1	13436.5
47.5°	12372.6	12474.6	12841.0	13195.7	13607.2	13752.7	14336.6	14764.8	15783.6	16611.7	14542.3
50°	12795.8	12874.5	13232.5	13789.5	14303.1	14490.5	15298.5	15912.4	17138.6	17963.4	15500.9
52.5°	13386.4	13356.2	13659.0	14440.3	15129.5	15360.4	16325.6	17133.6	18512.1	19186.2	16310.5
55°	13980.2	13930.0	14142.5	15121.1	16093.1	16335.6	17456.5	18359.8	19818.6	20287.0	16931.2
57.5°	14641.0	14545.7	14724.7	15889.0	17190.5	17479.9	18722.8	19663.0	21103.3	21176.9	17326.0
60°	15321.9	15193.1	15393.8	16840.9	18584.0	18925.3	20205.0	20934.4	22314.5	21889.6	17453.1
62.5°	15917.4	15827.1	16136.6	17903.1	20154.8	20529.5	21660.4	22286.1	23508.9	22185.7	16994.8
65°	16437.7	16452.7	16988.1	19097.6	21906.3	22306.1	23329.9	23952.3	24449.1	22010.0	15922.4
67.5°	17058.3	17143.6	18057.0	20670.1	24111.2	24549.5	25759.0	25769.0	24974.4	20979.5	13811.3
70°	17963.4	18139.0	19527.5	22851.5	27246.1	27848.4	28781.8	26836.3	24236.6	18185.8	10867.0
72.5°	18766.3	19094.2	21091.6	25347.4	31067.0	31523.7	30550.1	26220.7	21153.5	13628.9	6770.1
74°	18440.1	18846.6	21376.0	26577.0	32505.7	32724.8	29952.9	24424.0	17637.1	9438.4	3934.6
75°	17737.5	18179.2	20961.1	26565.3	32323.3	32201.2	28510.8	22371.4	14525.6	6437.2	2618.1
77.5°	14314.8	14781.5	17662.2	22767.9	26503.4	26388.0	21901.3	15007.4	6362.0	2111.2	1329.9
80°	8322.6	8678.9	10964.0	14458.7	17871.3	18080.5	14403.5	7425.9	2502.6	1186.1	901.7
82.5°	3697.1	3943.0	5296.3	7380.7	10785.0	11054.4	7543.0	3891.1	1545.7	721.0	542.0
85°	2425.7	2608.0	3215.3	3514.7	5135.7	5319.7	3692.0	3029.6	1020.5	396.5	398.1
87.5°	1744.8	1920.5	2388.9	2086.1	2357.1	2231.6	2009.1	2803.7	409.9	225.8	133.8
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°	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7	8367.7
2.5°	8289.1	8262.3	8202.1	8088.4	8024.8	7971.3	7882.6	7830.7	7807.3	7805.6	7815.7
5°	8083.3	8021.4	7865.9	7675.2	7522.9	7384.1	7211.8	7108.1	7034.4	6991.0	7002.7
7.5°	7844.1	7747.1	7502.9	7198.4	6954.1	6684.8	6418.8	6259.9	6136.1	6044.1	6060.8
10°	7680.2	7546.3	7190.0	6751.7	6345.2	5953.8	5587.4	5368.3	5194.3	5060.5	5070.5
12.5°	7625.0	7444.3	6950.8	6365.3	5794.8	5259.5	4781.1	4444.8	4265.8	4113.6	4125.3
15°	7633.3	7390.8	6750.1	6017.3	5299.7	4625.5	4045.0	3651.9	3409.3	3303.9	3305.6
17.5°	7640.0	7328.9	6539.3	5644.3	4809.5	4033.3	3402.6	3004.5	2775.3	2678.3	2679.9
20°	7618.3	7228.5	6278.3	5216.0	4297.6	3489.6	2879.0	2541.1	2367.1	2291.8	2291.8
22.5°	7589.8	7109.7	5983.9	4786.1	3792.4	3017.9	2504.3	2246.7	2146.3	2096.1	2094.4
25°	7603.2	7021.1	5682.8	4344.5	3327.4	2641.5	2255.0	2084.4	2017.5	1985.7	1984.0
27.5°	7675.2	6979.2	5405.1	3904.5	2920.8	2358.8	2087.8	1967.3	1923.8	1903.7	1903.7
30°	7805.6	6979.2	5115.7	3529.8	2582.9	2149.6	1958.9	1877.0	1846.9	1833.5	1833.5
32.5°	8033.2	7017.7	4836.3	3158.4	2313.6	1985.7	1851.9	1796.7	1773.2	1766.6	1766.6
35°	8424.6	7148.2	4563.6	2807.1	2096.1	1851.9	1749.8	1718.0	1701.3	1699.6	1704.7
37.5°	8975.0	7414.2	4307.7	2547.8	1942.2	1743.1	1664.5	1639.4	1629.4	1637.7	1644.4
40°	9667.6	7775.5	4075.1	2313.6	1825.1	1656.1	1585.9	1569.2	1564.1	1575.9	1585.9
42.5°	10504.0	8264.0	3884.4	2144.6	1734.8	1582.5	1519.0	1498.9	1493.9	1507.3	1520.6
45°	11409.0	8789.3	3750.6	2019.2	1664.5	1527.3	1460.4	1438.7	1428.6	1435.3	1450.4
47.5°	12232.1	9286.1	3697.1	1930.5	1597.6	1480.5	1408.6	1381.8	1365.1	1361.7	1373.4
50°	12926.3	9655.8	3722.2	1877.0	1544.1	1428.6	1358.4	1328.3	1303.2	1288.1	1296.5
52.5°	13431.5	9888.4	3745.6	1853.5	1502.2	1371.8	1303.2	1274.7	1241.3	1216.2	1216.2
55°	13797.9	9941.9	3693.7	1835.1	1470.5	1309.9	1241.3	1214.5	1181.1	1152.6	1149.3
57.5°	13941.8	9791.3	3501.3	1808.4	1448.7	1251.3	1176.0	1156.0	1127.5	1094.1	1092.4
60°	13747.7	9326.3	3130.0	1751.5	1420.3	1202.8	1110.8	1097.4	1084.0	1052.2	1050.6
62.5°	12968.1	8305.8	2649.8	1636.1	1363.4	1150.9	1050.6	1057.3	1058.9	1037.2	1033.8
65°	11554.6	6904.0	2181.4	1485.5	1278.1	1089.0	988.7	1020.5	1038.9	1035.5	1030.5
67.5°	9500.3	5373.3	1848.5	1326.6	1166.0	1003.7	921.8	958.6	973.6	985.3	982.0
70°	7051.2	3789.1	1529.0	1159.3	1030.5	903.4	834.8	853.2	843.1	856.5	861.5
72.5°	3931.3	2273.4	1246.3	992.0	890.0	786.3	737.7	734.4	712.6	712.6	712.6
74°	2358.8	1667.9	1095.7	888.3	804.7	709.3	667.5	652.4	632.3	634.0	632.3
75°	1897.0	1433.7	1005.4	819.7	744.4	664.1	622.3	602.2	587.2	587.2	585.5
77.5°	1197.8	1089.0	809.7	652.4	595.5	547.0	518.6	491.8	491.8	490.2	488.5
80°	905.0	866.6	630.7	493.5	456.7	419.9	401.5	389.8	389.8	394.8	393.1
82.5°	620.6	652.4	443.3	344.6	326.2	299.4	296.1	297.8	292.8	286.1	284.4
85°	453.3	490.2	299.4	217.5	199.1	182.3	195.7	202.4	194.1	179.0	172.3
87.5°	174.0	321.2	160.6	90.3	83.6	71.9	83.6	87.0	93.7	73.6	75.3
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)