

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: McGRAW-EDISON

Report Number: P383561

Luminaire Tested: **GLEON-SA8C-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383561
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: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA 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: 50176.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

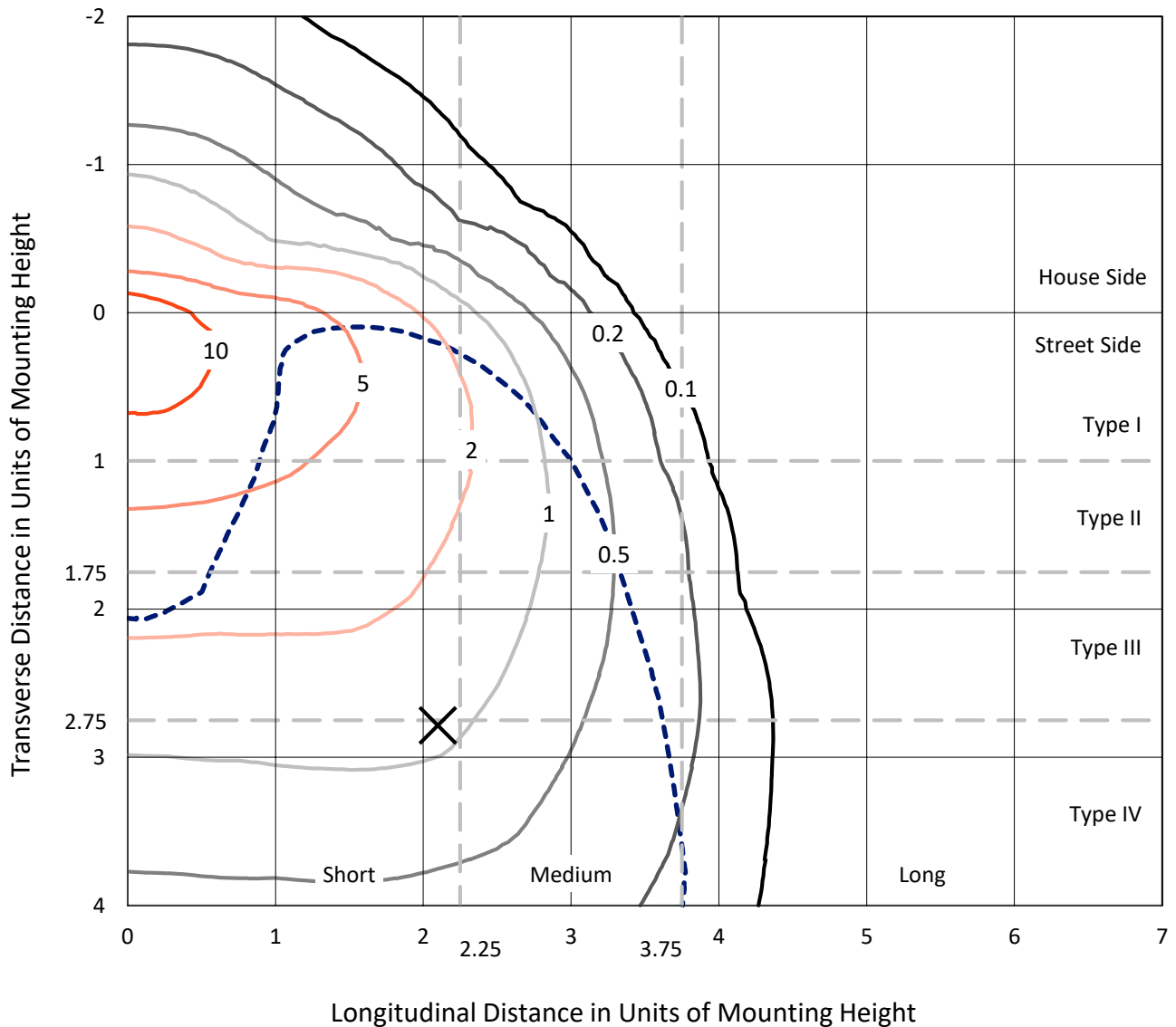
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

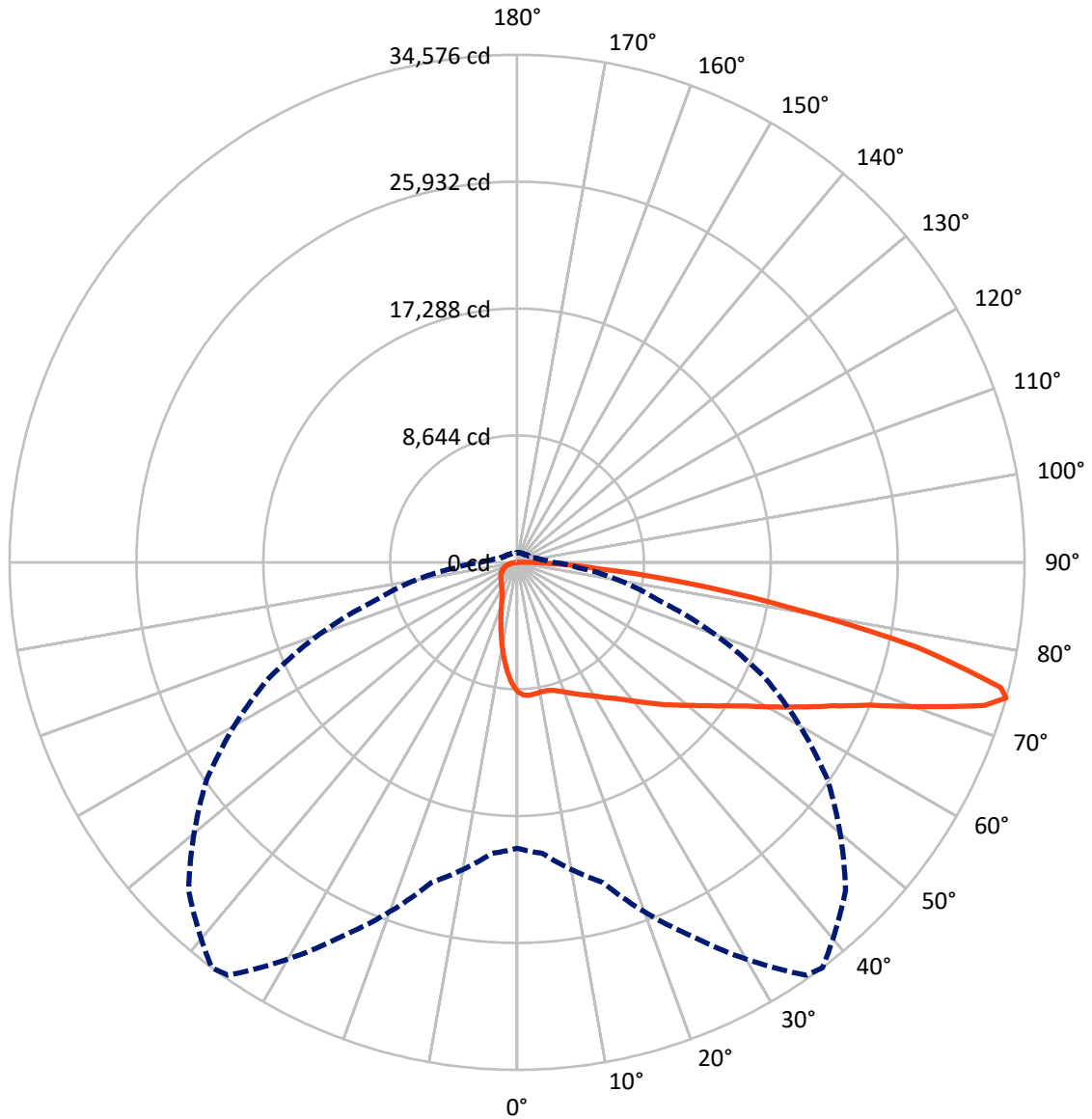
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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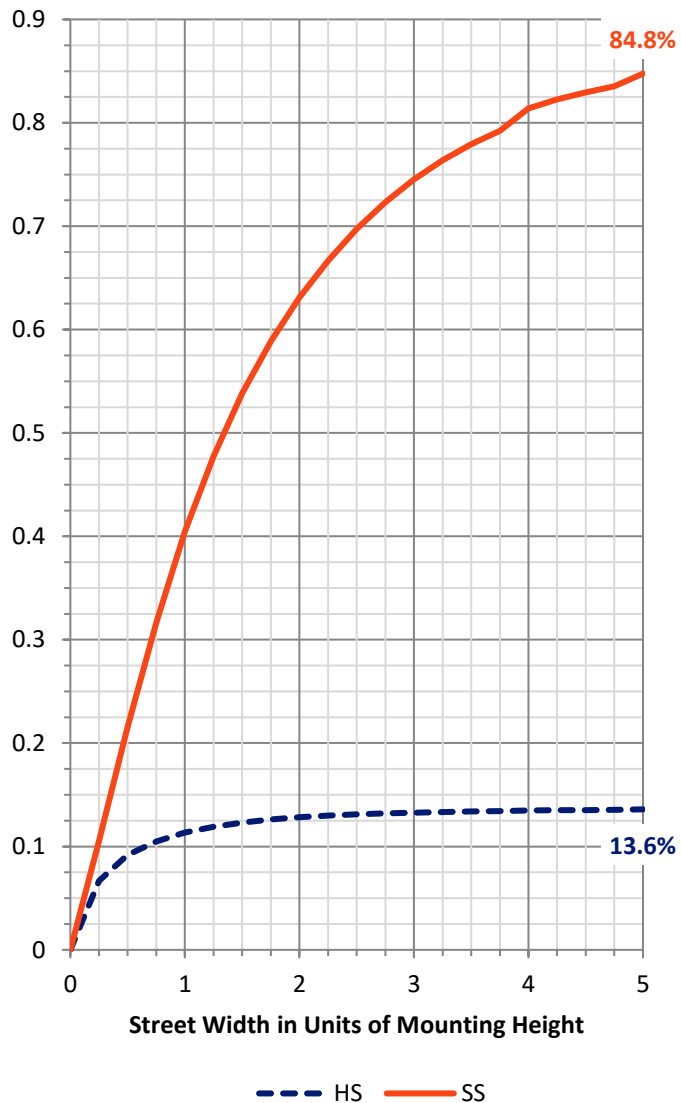
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6904.0	0.0	6904.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	43272.9	0.0	43272.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	50176.9	0.0	50176.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	1.6
10°-20°	1995.6	4.0
20°-30°	3074.9	6.1
30°-40°	4471.3	8.9
40°-50°	6581.0	13.1
50°-60°	9241.8	18.4
60°-70°	11697.3	23.3
70°-80°	10299.9	20.5
80°-90°	2036.5	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°	50176.9	100.0
0°-180°	50176.9	100.0

Coefficient of Utilization



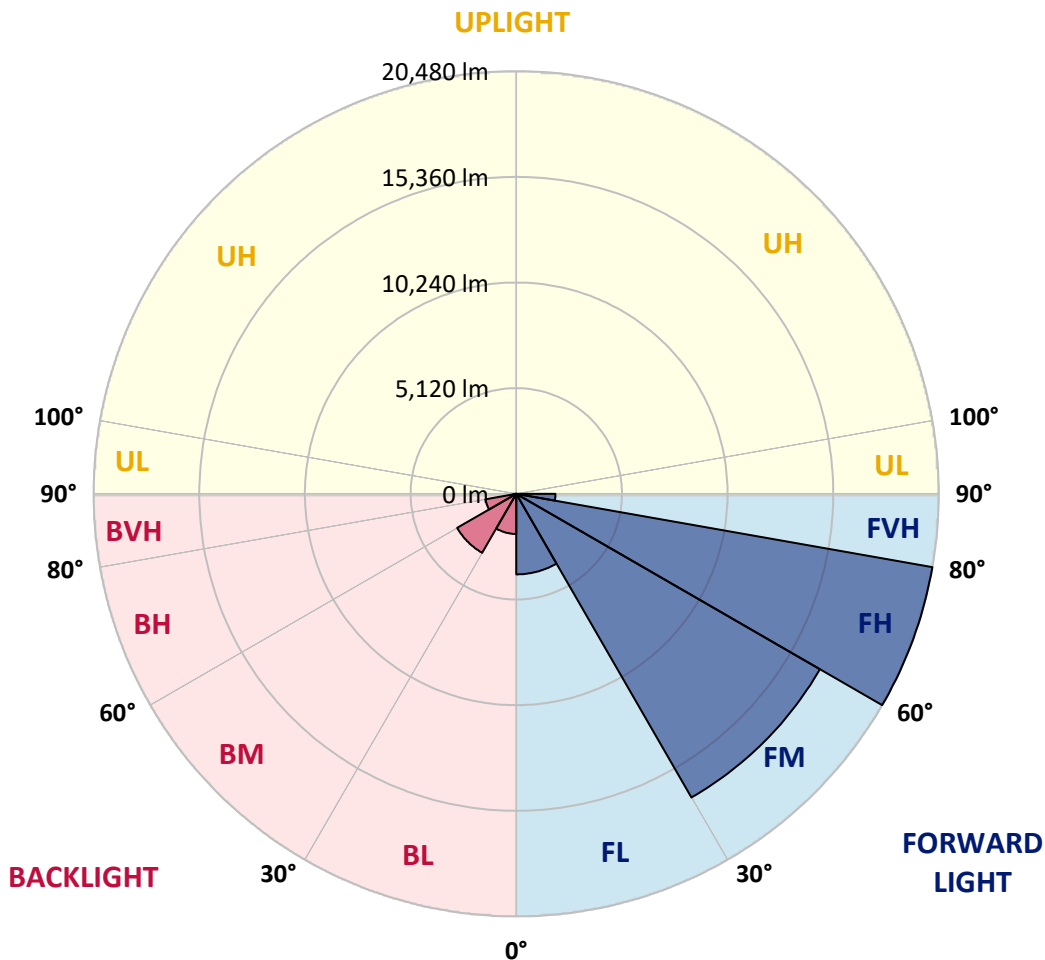
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3904.4	7.8			
FM (30°-60°)	16990.3	33.9			
FH (60°-80°)	20479.6	40.8			G5
FVH (80°-90°)	1898.6	3.8			G5
BL (0°-30°)	1944.7	3.9	B3/2500		
BM (30°-60°)	3303.8	6.6	B3/5000		
BH (60°-80°)	1517.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	137.9	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°	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9
2.5°	9143.2	9145.0	9143.2	9129.1	9095.4	9067.2	9044.2	9010.7	8936.4	8879.9	8795.0
5°	9229.8	9219.2	9212.2	9185.6	9132.6	9100.8	9056.6	8993.0	8871.0	8757.9	8620.1
7.5°	9189.2	9176.8	9160.9	9129.1	9069.0	9042.4	8980.6	8897.5	8750.9	8602.4	8404.4
10°	9063.7	9060.1	9053.1	9046.0	8994.7	8973.5	8917.0	8828.6	8683.7	8503.4	8271.9
12.5°	8924.0	8932.9	8961.1	8998.3	8975.3	8964.7	8929.3	8869.3	8720.8	8526.4	8247.1
15°	8835.6	8860.4	8936.4	9033.6	9053.1	9049.5	9040.7	9001.8	8844.5	8628.8	8303.6
17.5°	8805.6	8846.3	8991.2	9152.1	9208.6	9221.0	9224.6	9157.4	8982.4	8754.4	8361.9
20°	8860.4	8911.7	9123.8	9344.7	9434.8	9441.9	9426.1	9309.3	9113.1	8862.2	8393.8
22.5°	9026.6	9072.5	9337.6	9586.8	9689.4	9699.9	9652.2	9475.5	9251.0	8989.4	8438.0
25°	9346.5	9403.0	9668.2	9917.3	9970.4	9972.1	9903.2	9684.1	9431.3	9167.9	8533.4
27.5°	9763.6	9820.2	10058.8	10302.7	10274.4	10258.5	10164.9	9945.7	9666.4	9413.7	8703.1
30°	10228.5	10290.3	10516.5	10689.8	10622.6	10590.8	10514.8	10232.0	9993.4	9749.5	8962.9
32.5°	10709.2	10765.8	10963.8	11082.2	10997.3	10983.1	10868.3	10610.2	10419.4	10262.0	9383.6
35°	11202.3	11242.9	11437.4	11504.6	11391.4	11387.9	11356.1	11119.2	10999.1	11073.3	9995.1
37.5°	11706.1	11716.6	11882.8	11886.4	11852.7	11866.9	11900.5	11752.0	11785.6	12017.2	10790.5
40°	12155.0	12183.2	12303.5	12340.6	12398.9	12448.5	12616.3	12519.1	12779.0	13189.0	11780.3
42.5°	12487.3	12542.1	12734.7	12830.2	13019.3	13097.1	13333.9	13424.1	13947.2	14562.3	12957.5
45°	12768.4	12853.2	13162.5	13358.7	13678.6	13814.7	14154.0	14456.3	15267.6	16052.3	14196.4
47.5°	13072.3	13180.2	13567.2	13941.9	14376.8	14530.6	15147.3	15599.9	16676.3	17551.2	15364.8
50°	13519.6	13602.6	13980.9	14569.4	15112.0	15310.0	16163.7	16812.4	18107.9	18979.3	16377.5
52.5°	14143.4	14111.6	14431.5	15257.0	15985.2	16229.0	17248.9	18102.6	19559.1	20271.3	17233.0
55°	14770.9	14717.9	14942.3	15976.3	17003.3	17259.5	18443.7	19398.2	20939.4	21434.4	17888.7
57.5°	15469.1	15368.3	15557.4	16787.6	18162.7	18468.5	19781.7	20775.0	22296.9	22374.7	18305.8
60°	16188.4	16052.3	16264.4	17793.3	19635.0	19995.6	21347.7	22118.3	23576.5	23127.5	18440.2
62.5°	16817.6	16722.2	17049.2	18915.6	21294.7	21690.6	22885.4	23546.4	24838.5	23440.4	17955.9
65°	17367.3	17383.2	17948.9	20177.6	23145.2	23567.7	24649.4	25306.9	25831.8	23254.9	16822.9
67.5°	18023.0	18113.2	19078.3	21839.1	25474.8	25937.9	27215.8	27226.3	26386.8	22166.1	14592.4
70°	18979.3	19164.8	20631.9	24143.9	28787.1	29423.4	30409.6	28354.1	25607.3	19214.4	11481.6
72.5°	19827.7	20174.1	22284.5	26781.0	32824.0	33306.6	32277.8	27703.6	22349.9	14399.7	7153.0
74°	19483.0	19912.5	22585.0	28080.1	34344.0	34575.6	31646.9	25805.4	18634.6	9972.1	4157.1
75°	18740.7	19207.3	22146.6	28067.7	34151.4	34022.4	30123.3	23636.6	15347.1	6801.3	2766.1
77.5°	15124.4	15617.5	18661.1	24055.5	28002.3	27880.4	23139.9	15856.2	6721.8	2230.6	1405.1
80°	8793.3	9169.7	11584.1	15276.4	18882.1	19103.0	15218.0	7845.9	2644.2	1253.1	952.7
82.5°	3906.2	4166.0	5595.9	7798.2	11395.0	11679.6	7969.6	4111.2	1633.2	761.8	572.6
85°	2562.9	2755.5	3397.1	3713.5	5426.2	5620.6	3900.9	3200.9	1078.2	418.9	420.7
87.5°	1843.5	2029.1	2523.9	2204.0	2490.4	2357.8	2122.7	2962.3	433.1	238.6	141.4
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°	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9	8840.9
2.5°	8757.9	8729.6	8666.0	8545.8	8478.7	8422.1	8328.4	8273.6	8248.9	8247.1	8257.7
5°	8540.5	8475.1	8310.7	8109.2	7948.4	7801.7	7619.6	7510.0	7432.3	7386.3	7398.7
7.5°	8287.8	8185.2	7927.2	7605.5	7347.5	7062.9	6781.9	6613.9	6483.1	6385.9	6403.6
10°	8114.5	7973.1	7596.7	7133.6	6704.1	6290.5	5903.4	5671.8	5488.0	5346.6	5357.2
12.5°	8056.2	7865.3	7343.9	6725.3	6122.6	5557.0	5051.5	4696.2	4507.1	4346.2	4358.6
15°	8065.1	7808.8	7131.8	6357.6	5599.4	4887.1	4273.8	3858.5	3602.1	3490.8	3492.6
17.5°	8072.1	7743.4	6909.1	5963.5	5081.5	4261.5	3595.0	3174.4	2932.2	2829.8	2831.5
20°	8049.1	7637.3	6633.4	5511.0	4540.6	3687.0	3041.9	2684.8	2501.0	2421.5	2421.5
22.5°	8019.1	7511.8	6322.3	5056.8	4006.9	3188.5	2646.0	2373.8	2267.7	2214.7	2212.9
25°	8033.2	7418.1	6004.2	4590.2	3515.6	2790.8	2382.6	2202.3	2131.6	2098.0	2096.3
27.5°	8109.2	7373.9	5710.8	4125.4	3086.0	2492.2	2205.8	2078.6	2032.6	2011.4	2011.4
30°	8247.1	7373.9	5404.9	3729.4	2729.0	2271.2	2069.7	1983.1	1951.3	1937.2	1937.2
32.5°	8487.5	7414.7	5109.8	3337.0	2444.5	2098.0	1956.6	1898.3	1873.5	1866.4	1866.4
35°	8901.0	7552.4	4821.7	2965.9	2214.7	1956.6	1848.7	1815.2	1797.5	1795.7	1801.1
37.5°	9482.6	7833.5	4551.3	2691.9	2052.0	1841.8	1758.7	1732.1	1721.5	1730.3	1737.4
40°	10214.3	8215.3	4305.6	2444.5	1928.3	1749.8	1675.6	1657.9	1652.6	1665.0	1675.6
42.5°	11098.1	8731.4	4104.1	2265.9	1832.9	1672.0	1604.9	1583.6	1578.3	1592.5	1606.6
45°	12054.2	9286.4	3962.7	2133.3	1758.7	1613.7	1543.0	1520.0	1509.5	1516.5	1532.4
47.5°	12923.8	9811.3	3906.2	2039.7	1688.0	1564.3	1488.2	1459.9	1442.3	1438.8	1451.1
50°	13657.4	10201.9	3932.6	1983.1	1631.4	1509.5	1435.2	1403.4	1376.8	1361.0	1369.8
52.5°	14191.2	10447.6	3957.4	1958.4	1587.2	1449.3	1376.8	1346.8	1311.4	1285.0	1285.0
55°	14578.3	10504.2	3902.6	1938.9	1553.6	1383.9	1311.4	1283.2	1247.8	1217.8	1214.3
57.5°	14730.3	10345.1	3699.4	1910.7	1530.6	1322.1	1242.5	1221.4	1191.3	1156.0	1154.2
60°	14525.2	9853.7	3307.0	1850.5	1500.6	1270.8	1173.7	1159.5	1145.3	1111.7	1109.9
62.5°	13701.6	8775.6	2799.7	1728.6	1440.5	1216.0	1109.9	1117.0	1118.8	1095.9	1092.3
65°	12208.0	7294.4	2304.8	1569.6	1350.4	1150.6	1044.5	1078.2	1097.6	1094.1	1088.8
67.5°	10037.5	5677.1	1953.1	1401.6	1232.0	1060.5	973.8	1012.8	1028.7	1041.0	1037.6
70°	7450.0	4003.3	1615.5	1224.9	1088.8	954.5	882.0	901.5	890.8	905.0	910.2
72.5°	4153.6	2402.0	1316.7	1048.1	940.3	830.8	779.4	775.9	753.0	753.0	753.0
74°	2492.2	1762.2	1157.7	938.5	850.1	749.4	705.2	689.3	668.1	669.9	668.1
75°	2004.3	1514.7	1062.2	866.1	786.5	701.7	657.5	636.3	620.4	620.4	618.6
77.5°	1265.5	1150.6	855.4	689.3	629.3	577.9	547.9	519.6	519.6	517.8	516.1
80°	956.2	915.5	666.3	521.4	482.5	443.6	424.2	411.8	411.8	417.1	415.4
82.5°	655.7	689.3	468.4	364.1	344.7	316.4	312.8	314.6	309.3	302.2	300.5
85°	479.0	517.8	316.4	229.8	210.3	192.6	206.8	213.9	205.0	189.1	182.0
87.5°	183.8	339.4	169.6	95.5	88.4	76.0	88.4	91.9	99.0	77.8	79.6
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)