

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: P383574

Luminaire Tested: **GLEON-SA8C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37501.3 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

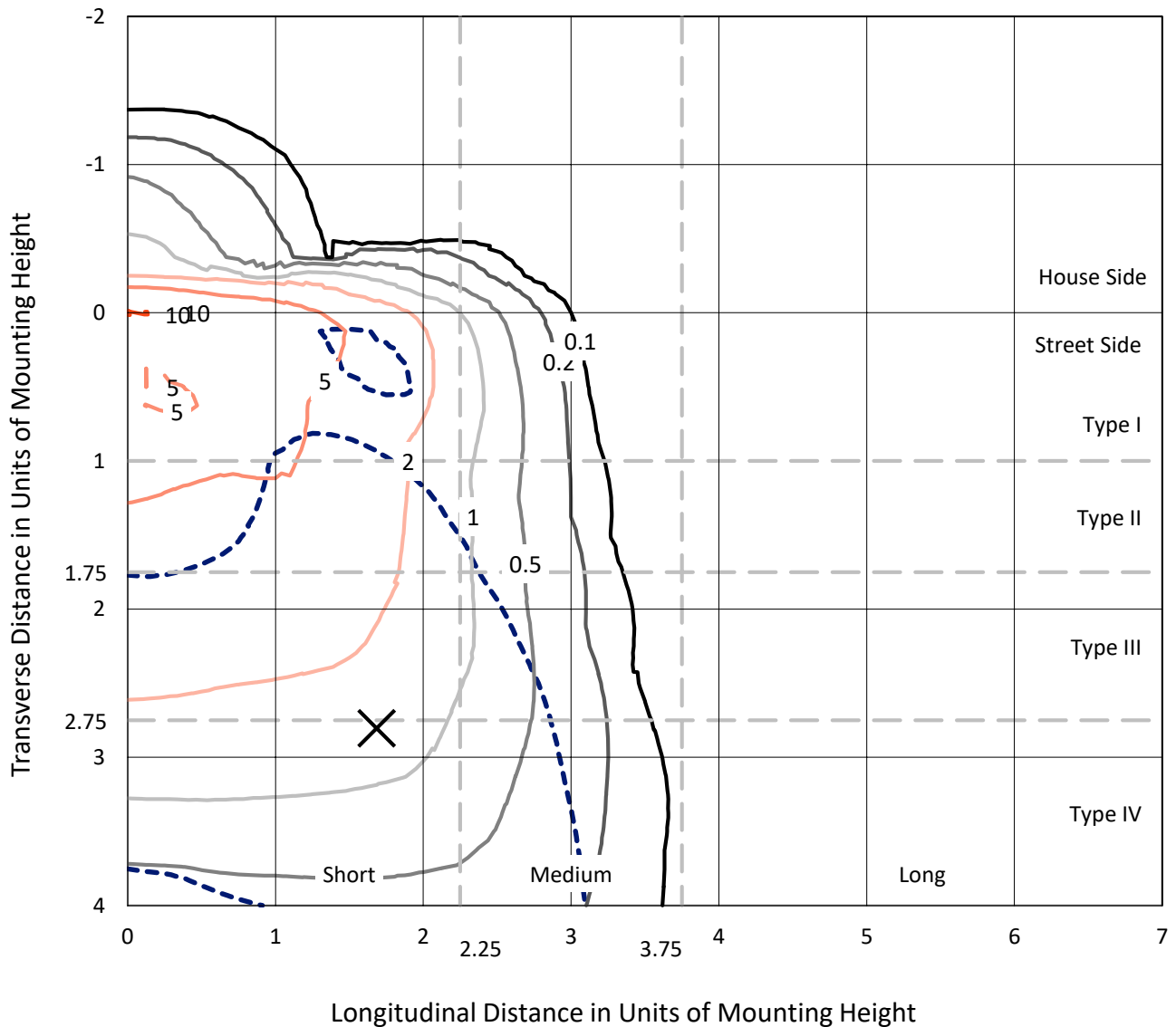
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

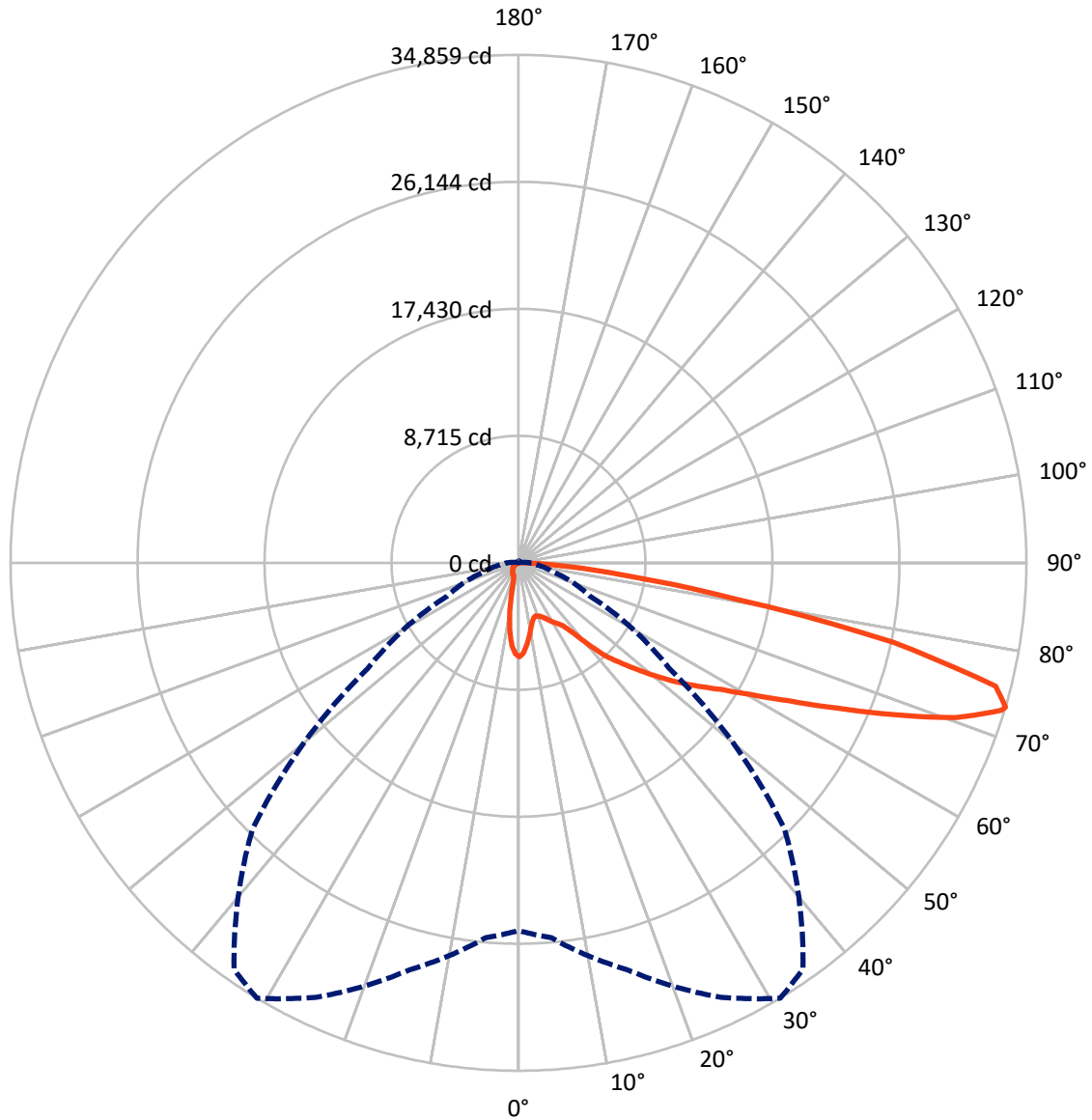
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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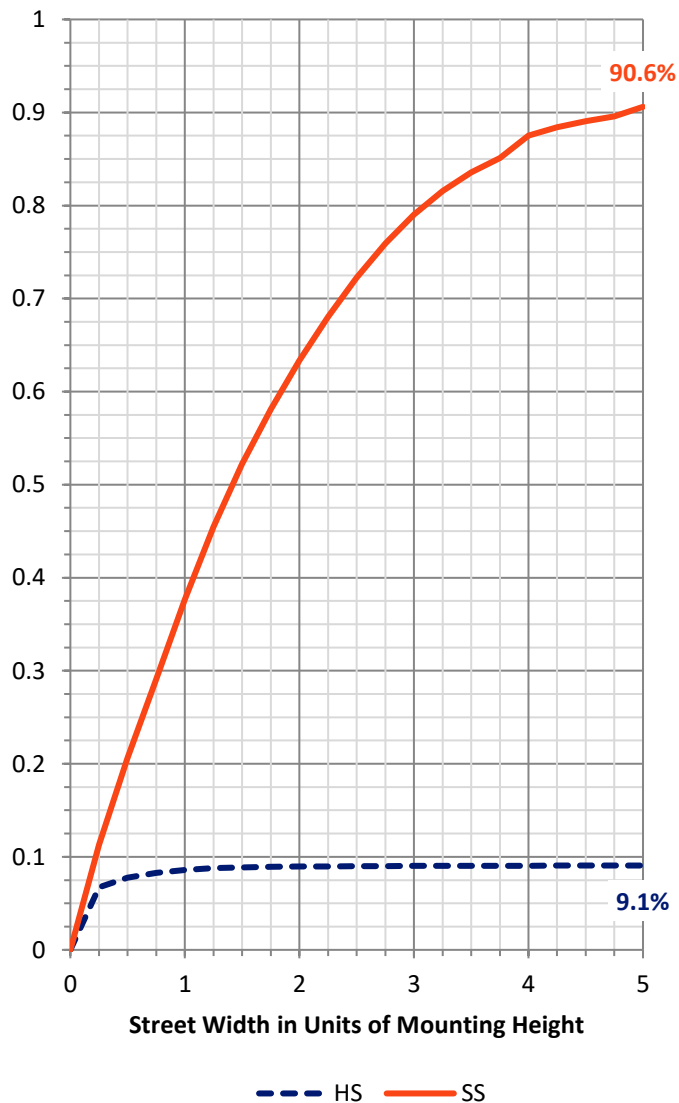
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3418.4	0.0	3418.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	34082.9	0.0	34082.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	37501.3	0.0	37501.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	1.4
10°-20°	1161.6	3.1
20°-30°	1740.4	4.6
30°-40°	2769.0	7.4
40°-50°	4944.6	13.2
50°-60°	7672.6	20.5
60°-70°	10199.7	27.2
70°-80°	7672.3	20.5
80°-90°	806.2	2.1
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°	37501.3	100.0
0°-180°	37501.3	100.0

Coefficient of Utilization

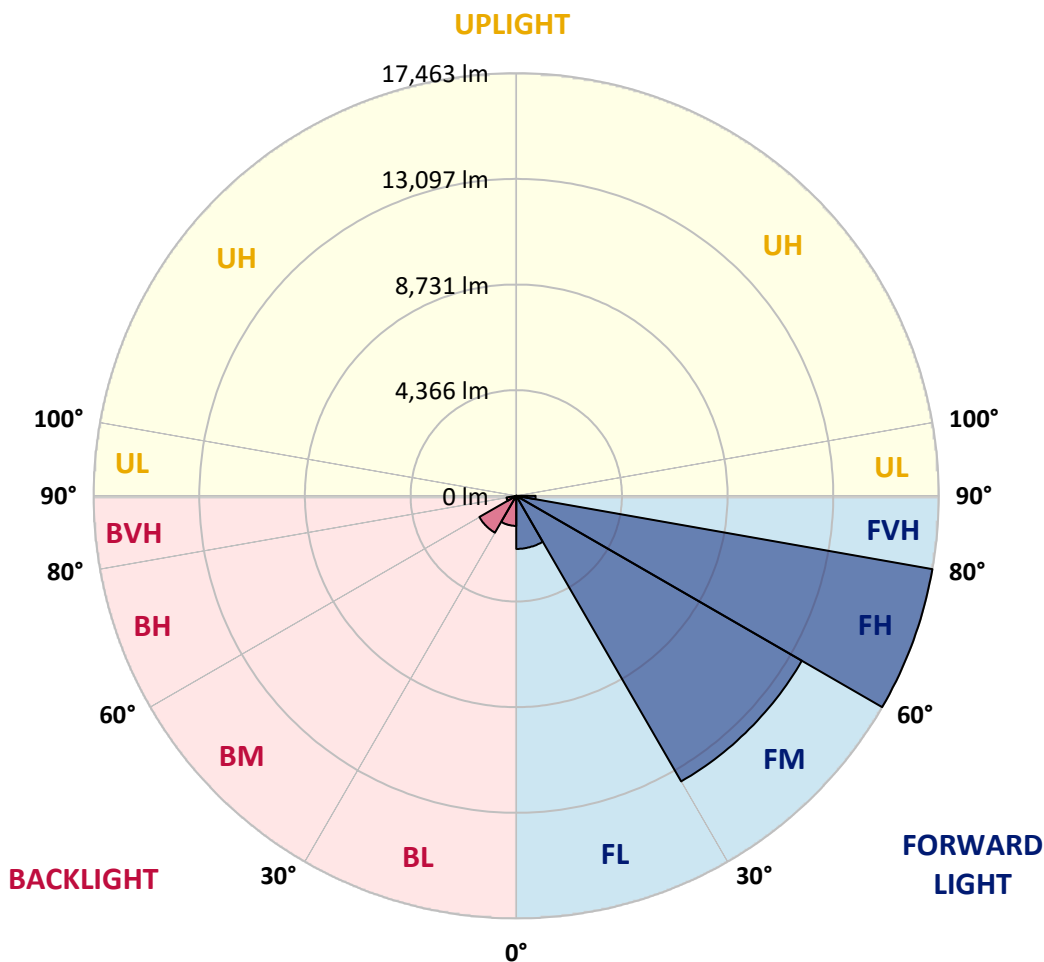


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.9	5.9			
FM (30°-60°)	13626.7	36.3			
FH (60°-80°)	17463.0	46.6			G5
FVH (80°-90°)	799.4	2.1			G5
BL (0°-30°)	1243.1	3.3	B3/2500		
BM (30°-60°)	1759.5	4.7	B2/2500		
BH (60°-80°)	409.0	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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°	31°	35°	45°	55°	65°	75°	85°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6114.5	6140.2	6167.8	6173.3	6219.1	6221.0	6287.0	6336.6	6386.1	6433.8	6450.3
5°	5486.9	5529.1	5578.7	5628.2	5725.5	5764.0	5925.5	6090.6	6248.4	6399.0	6472.4
7.5°	4817.1	4864.8	4934.6	5057.5	5165.8	5241.0	5496.1	5789.8	6083.3	6360.4	6520.1
10°	4206.0	4250.1	4323.5	4453.7	4620.8	4723.5	5066.7	5474.1	5905.4	6325.6	6591.6
12.5°	3817.0	3840.9	3881.2	4020.7	4171.2	4286.8	4690.5	5195.1	5758.5	6323.7	6707.2
15°	3745.4	3752.7	3719.8	3782.1	3899.6	4011.5	4420.8	4969.4	5646.6	6353.1	6857.8
17.5°	3859.2	3855.5	3745.4	3738.1	3831.6	3923.4	4288.6	4813.4	5567.7	6421.0	7052.3
20°	4031.7	4018.9	3828.0	3793.2	3892.2	3978.5	4279.4	4754.7	5538.3	6534.7	7289.0
22.5°	4261.1	4239.1	3940.0	3903.3	4009.7	4099.6	4393.2	4811.6	5563.9	6687.1	7564.3
25°	4545.5	4512.5	4132.6	4092.3	4200.5	4290.4	4596.9	4974.9	5641.1	6872.4	7912.9
27.5°	4866.7	4819.0	4440.9	4336.4	4459.2	4552.8	4868.5	5224.5	5762.2	7068.8	8340.5
30°	5169.4	5107.0	4765.7	4593.3	4743.7	4848.3	5162.1	5521.7	5956.7	7371.5	8925.9
32.5°	5474.1	5404.4	5055.7	4850.1	4985.9	5099.8	5464.9	5931.0	6321.9	7834.0	9703.9
35°	6175.0	6101.6	5674.1	5334.6	5332.7	5397.0	5888.8	6490.7	6804.5	8478.1	10632.5
37.5°	7355.0	7312.8	6905.5	6261.3	6088.9	6017.2	6466.9	7158.7	7498.2	9364.5	11680.4
40°	8646.9	8610.2	8153.3	7569.8	7307.3	7131.2	7296.3	8089.1	8478.1	10447.2	12750.2
42.5°	10105.8	9931.5	9116.7	8942.4	8707.5	8573.5	8424.9	9236.0	9681.9	11625.3	13810.8
45°	11430.7	11137.1	10080.2	9815.9	9762.7	9795.7	9878.3	10777.4	11036.2	13025.5	14867.9
47.5°	12219.9	11988.6	11177.5	10924.3	10909.6	11128.0	11751.9	12519.0	12385.0	14245.8	15798.3
50°	12970.4	12761.2	12087.8	12150.2	12218.0	12515.3	13878.8	14310.1	13616.3	15352.4	16651.6
52.5°	13577.9	13258.5	12906.2	13256.7	13590.7	14069.6	16073.6	15917.5	14489.9	16233.2	17381.9
55°	13928.3	13783.4	13954.0	14306.3	14933.9	15712.0	18145.3	17255.3	15128.5	17037.0	17868.3
57.5°	15212.9	14928.4	15268.0	15572.6	16391.0	17479.3	19919.9	18251.8	15589.1	17534.3	17980.2
60°	16767.2	16537.9	16737.9	17244.3	18349.1	19628.1	21578.8	19064.8	15829.5	17853.6	17690.3
62.5°	19240.9	18938.2	18813.3	19380.4	20844.8	22241.3	22837.7	19628.1	15776.3	17712.3	16695.7
65°	22555.1	22241.3	21683.4	22197.3	24059.8	25045.3	24245.2	19747.4	15409.3	16569.1	14181.6
67.5°	25950.0	25722.5	25245.3	26111.5	27792.4	28109.9	25733.4	19457.4	14227.4	13434.7	10019.6
70°	28192.4	28095.2	28405.4	30321.2	31820.5	31728.7	27098.8	17899.5	11089.4	8261.6	4956.6
72.5°	26575.7	27041.9	29332.1	32805.9	34637.4	33888.6	26397.7	13744.8	6338.4	3178.3	1433.2
73°	25236.2	25832.6	28915.5	32899.5	34859.3	34039.1	25808.7	12616.2	5402.5	2508.6	1086.4
75°	17556.3	18288.5	23938.7	30640.5	33820.7	32431.6	21512.8	7722.1	2503.1	1112.1	438.6
77.5°	8524.0	9065.4	13181.5	22138.5	26302.3	25338.9	13392.5	2877.5	1130.4	695.5	201.9
80°	3182.1	3538.0	5721.8	11267.4	15200.1	15598.3	5890.6	1088.2	752.4	559.7	102.7
82.5°	833.2	928.6	2110.3	5024.5	7790.0	8153.3	1857.1	548.7	550.5	460.7	62.4
85°	266.0	304.6	658.8	2255.4	3670.2	3222.4	484.5	266.0	400.0	343.2	34.8
87.5°	33.1	42.2	209.2	530.3	809.2	449.6	75.3	78.9	170.7	190.9	20.2
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°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6466.9	6457.7	6459.5	6411.8	6380.6	6318.2	6253.9	6224.6	6193.4	6180.5	6193.4
5°	6499.9	6483.4	6435.7	6288.9	6132.8	5931.0	5742.0	5598.9	5419.0	5369.4	5420.9
7.5°	6551.3	6518.2	6378.8	6079.7	5732.8	5347.5	4914.4	4598.8	4340.0	4173.0	4233.5
10°	6626.5	6564.2	6283.4	5775.0	5154.8	4472.1	3857.4	3378.4	3038.9	2899.4	2893.9
12.5°	6753.2	6635.7	6165.9	5378.7	4448.2	3538.0	2732.4	2213.1	1937.9	1759.9	1756.2
15°	6892.6	6720.1	6017.2	4903.4	3626.1	2534.3	1759.9	1365.3	1187.3	1130.4	1123.1
17.5°	7063.3	6817.3	5824.6	4318.0	2765.5	1679.1	1148.8	1034.9	1027.7	1022.2	1022.2
20°	7278.0	6932.9	5576.8	3648.1	1961.7	1121.2	976.3	983.6	987.3	979.9	981.8
22.5°	7527.6	7050.4	5281.4	2928.8	1326.8	937.7	934.1	943.2	946.9	943.2	945.1
25°	7817.5	7186.2	4921.7	2174.6	957.9	890.0	899.2	912.1	921.2	921.2	921.2
27.5°	8177.1	7351.4	4488.7	1517.6	827.6	840.4	866.2	890.0	902.9	906.5	906.5
30°	8645.1	7556.9	3969.3	1040.5	752.4	774.4	822.1	868.0	891.9	895.5	897.4
32.5°	9236.0	7788.1	3367.4	768.9	688.1	704.7	756.0	833.2	879.0	886.4	886.4
35°	9913.2	8056.0	2719.6	669.8	642.3	647.8	688.1	776.3	857.0	877.1	879.0
37.5°	10654.6	8320.3	2068.1	625.7	603.7	603.7	633.1	708.3	803.7	866.2	873.5
40°	11346.3	8480.0	1449.8	590.9	568.9	568.9	594.6	649.7	739.6	833.2	853.3
42.5°	11985.0	8535.0	1009.3	557.9	535.8	541.3	563.4	607.4	675.3	768.9	787.3
45°	12641.9	8525.8	735.8	519.3	502.8	519.3	535.8	568.9	618.5	671.6	675.3
47.5°	13137.4	8448.8	583.5	482.6	471.6	493.6	508.3	530.3	557.9	554.2	554.2
50°	13601.7	8261.6	469.8	433.1	440.4	466.1	473.4	480.8	482.6	447.8	444.1
52.5°	13954.0	7969.8	376.2	379.9	409.2	434.9	427.6	416.6	398.2	356.0	348.7
55°	14071.5	7408.2	295.5	313.8	363.3	396.4	368.9	345.0	310.1	275.3	267.9
57.5°	13858.6	6683.4	240.4	244.1	306.5	334.0	302.8	275.3	236.7	207.4	201.9
60°	13407.2	5877.8	198.2	183.5	236.7	260.6	240.4	212.9	178.0	155.9	154.2
62.5°	12511.6	5019.0	163.3	143.2	179.9	200.0	187.1	167.0	137.6	123.0	121.1
65°	10628.9	4015.2	132.1	115.6	139.5	155.9	144.9	130.3	108.2	97.3	95.4
67.5°	7419.3	2714.1	108.2	95.4	110.1	123.0	113.7	106.5	86.3	84.4	86.3
70°	3578.4	1308.5	89.9	77.0	86.3	95.4	91.8	86.3	82.5	95.4	110.1
72.5°	1025.8	438.6	71.5	64.2	69.8	75.3	78.9	77.0	89.9	115.6	134.0
73°	789.1	354.2	67.9	60.6	66.0	73.4	77.0	75.3	91.8	117.5	134.0
75°	337.7	170.7	51.4	49.6	55.1	64.2	67.9	67.9	91.8	119.2	128.5
77.5°	152.3	91.8	33.1	38.6	47.7	51.4	56.9	56.9	73.4	91.8	91.8
80°	86.3	49.6	25.7	29.3	34.8	34.8	34.8	31.2	33.1	36.7	40.3
82.5°	55.1	33.1	20.2	23.8	22.0	18.4	14.7	14.7	12.9	14.7	18.4
85°	31.2	18.4	18.4	14.7	9.1	7.4	9.1	7.4	1.9	0.0	1.9
87.5°	18.4	11.0	5.5	0.0	0.0	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)