

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: P269760

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55759.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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: 25 FT

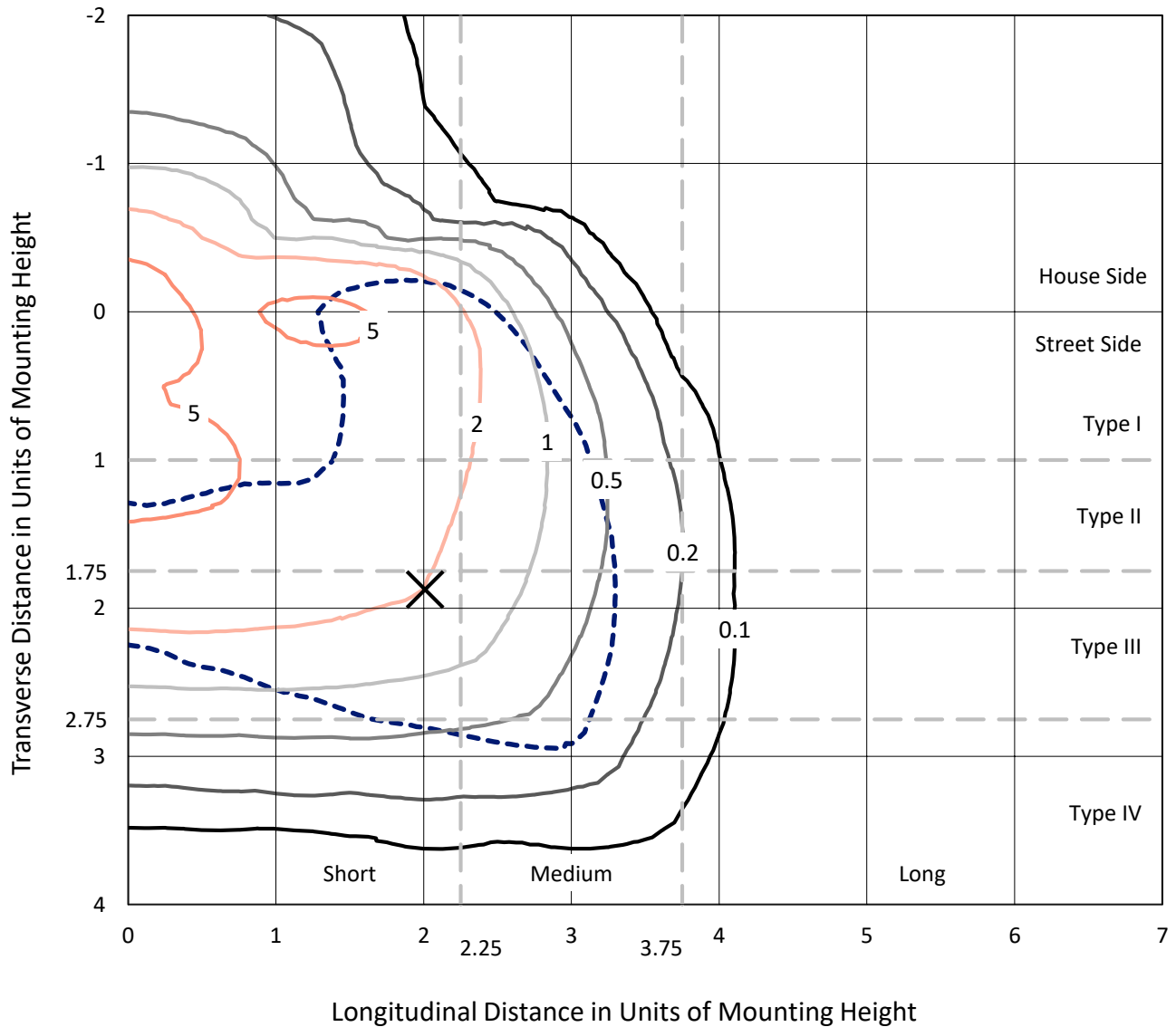


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

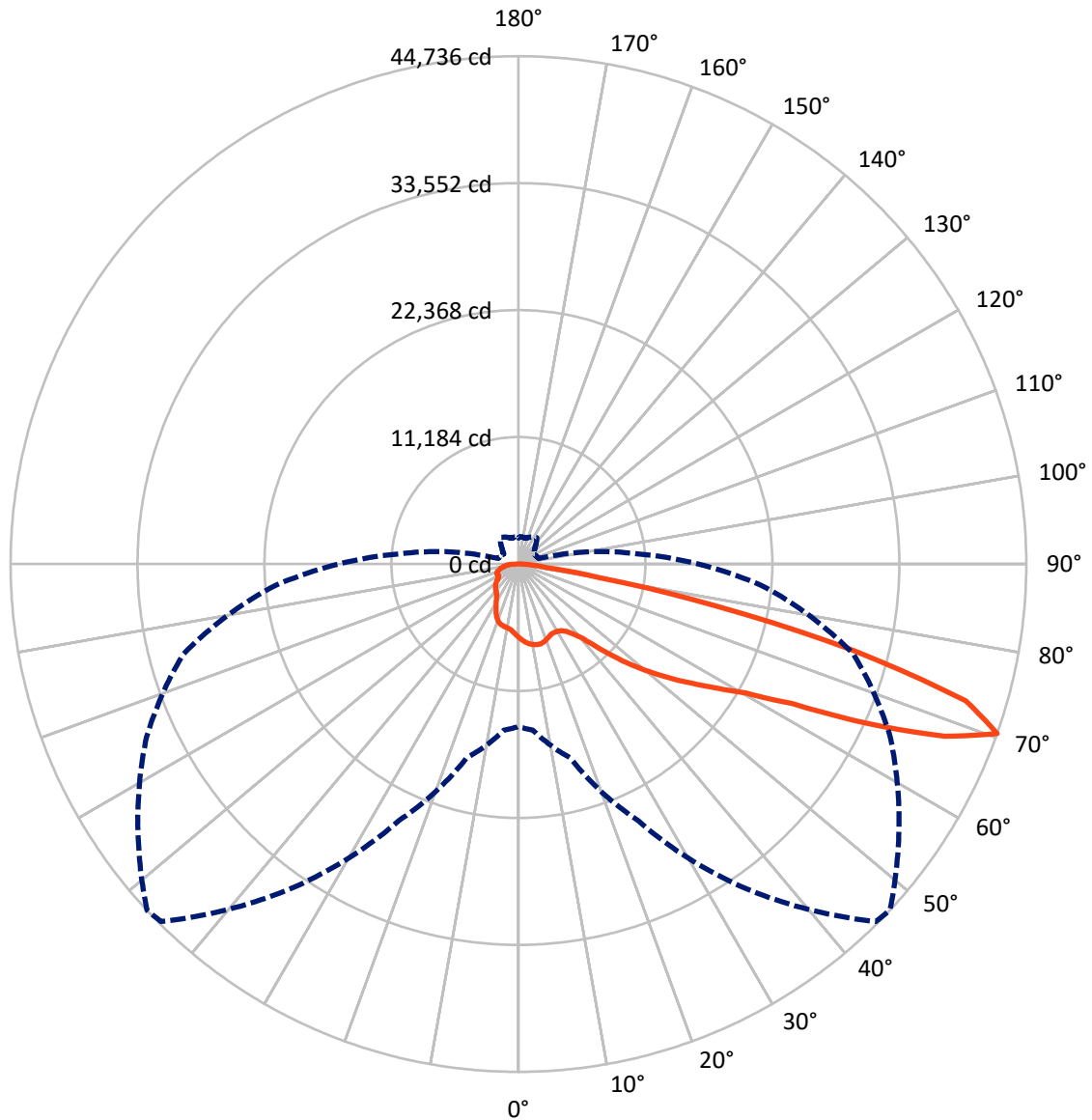


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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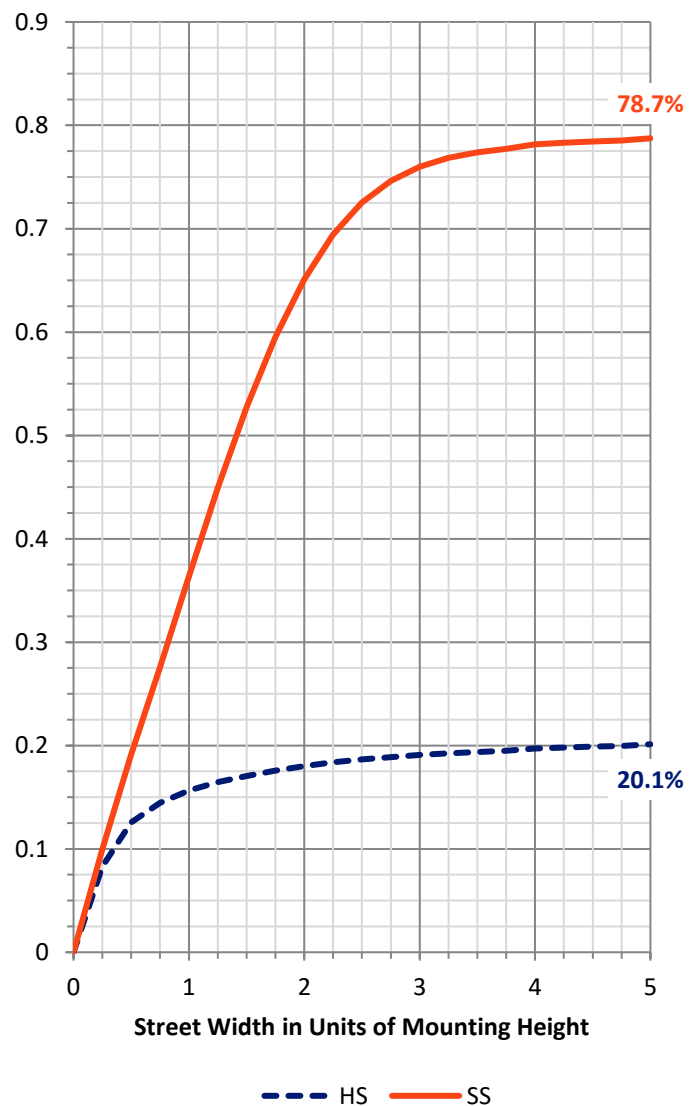
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11632.6	0.0	11632.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	44127.3	0.0	44127.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	55759.9	0.0	55759.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.9	1.1
10°-20°	1818.7	3.3
20°-30°	2685.7	4.8
30°-40°	3903.7	7.0
40°-50°	7025.2	12.6
50°-60°	12170.4	21.8
60°-70°	17370.7	31.2
70°-80°	8917.2	16.0
80°-90°	1248.4	2.2
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°	55759.9	100.0
0°-180°	55759.9	100.0

Coefficient of Utilization



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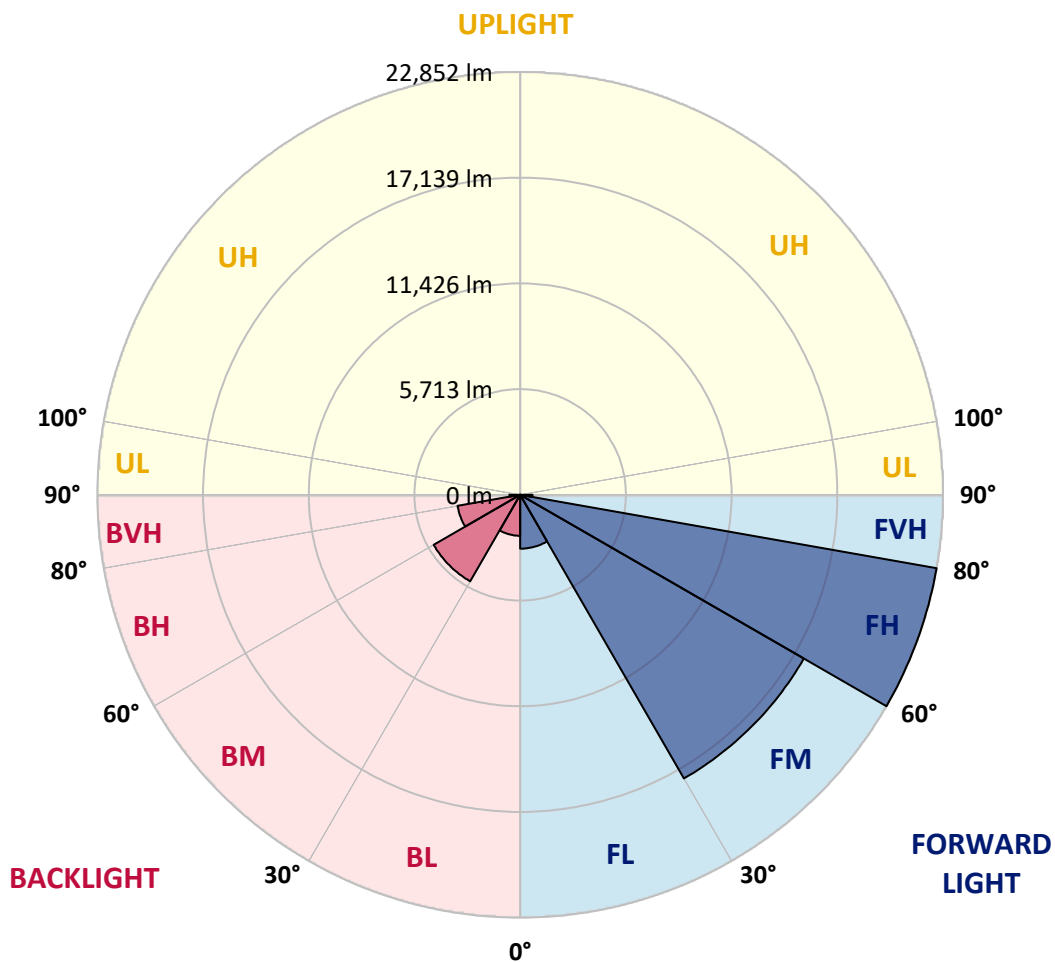
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2909.4	5.2			
FM	(30°-60°)	17699.8	31.7			
FH	(60°-80°)	22851.9	41.0			G5
FVH	(80°-90°)	666.2	1.2			G4/750
BL	(0°-30°)	2214.9	4.0	B3/2500		
BM	(30°-60°)	5399.5	9.7	B4/8500		
BH	(60°-80°)	3435.9	6.2	B4/5000		G4/5000
BVH	(80°-90°)	582.3	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0
2.5°	6849.7	6836.1	6830.7	6819.8	6806.3	6738.5	6724.9	6676.1	6608.2	6537.8	6464.5
5°	7299.9	7297.3	7267.5	7213.2	7126.3	6977.1	6941.9	6822.5	6662.5	6508.0	6353.3
7.5°	7696.0	7671.6	7614.7	7506.1	7354.2	7150.8	7102.0	6936.5	6716.7	6505.2	6296.3
10°	7986.3	7972.7	7848.0	7698.7	7500.8	7275.6	7218.6	7034.2	6792.8	6524.1	6263.7
12.5°	8151.8	8124.7	7980.9	7801.8	7565.9	7346.1	7289.1	7102.0	6830.7	6524.1	6217.6
15°	8140.9	8121.9	7978.1	7782.8	7544.1	7351.5	7299.9	7112.8	6822.5	6497.0	6157.9
17.5°	7923.9	7932.0	7810.0	7617.4	7422.1	7275.6	7229.5	7055.8	6768.3	6442.7	6087.4
20°	7544.1	7582.1	7500.8	7329.8	7221.4	7121.0	7091.1	6944.5	6684.2	6364.1	6011.5
22.5°	7164.3	7199.6	7167.0	7023.3	7007.0	6947.3	6931.1	6825.2	6610.9	6315.3	5965.4
25°	6884.9	6917.5	6912.1	6787.2	6836.1	6833.3	6819.8	6768.3	6594.6	6315.3	5973.5
27.5°	6809.1	6819.8	6809.1	6695.1	6762.9	6817.1	6806.3	6798.2	6643.5	6394.0	6076.6
30°	7069.4	7053.1	6969.1	6738.5	6800.9	6876.7	6865.9	6871.3	6790.0	6600.0	6307.1
32.5°	8108.5	8035.1	7769.4	7121.0	6955.4	6996.2	7001.6	7091.1	7104.6	6917.5	6665.2
35°	9662.8	9581.4	9236.9	8146.4	7435.6	7294.5	7294.5	7430.2	7511.5	7373.2	7221.4
37.5°	11309.4	11219.9	11035.4	9567.8	8444.7	7812.6	7799.2	7894.0	8010.7	8043.2	8081.2
40°	13181.2	13086.2	13137.8	11163.0	9852.7	8710.7	8518.0	8450.1	8764.9	8973.8	9277.5
42.5°	15229.3	15185.9	15204.9	12939.7	11455.9	10053.4	9779.4	9429.5	9809.3	10180.9	10818.4
45°	17125.6	17163.6	17144.5	14841.3	13240.8	11691.9	11401.6	10723.4	11095.1	11732.7	12771.7
47.5°	18785.7	18628.4	18872.5	16919.3	15240.1	13525.7	13167.6	12258.9	12636.0	13422.7	15180.5
50°	20801.3	20779.7	20421.4	19691.7	17657.3	15367.7	14898.4	13845.8	14431.8	15525.0	18216.1
52.5°	22920.0	22526.5	22198.3	21848.4	20220.8	17255.7	16680.6	15427.3	16542.3	17917.7	21916.2
55°	23354.0	23177.7	23584.6	24173.2	22692.1	19217.0	18547.0	17410.4	18918.7	20652.2	26183.3
57.5°	24281.7	24279.0	25119.9	26169.9	25236.7	21297.7	20622.3	19805.7	21590.8	23785.3	30713.7
60°	24908.5	25084.7	26647.2	28684.5	27735.1	23701.2	23080.1	22570.0	24629.0	27287.5	34934.6
62.5°	25236.7	25475.4	27607.6	29704.6	31267.0	27702.6	27081.4	26346.1	28649.3	31128.6	37403.3
65°	23872.1	24341.5	27458.3	30586.2	34359.6	34188.7	33909.3	32617.9	33676.0	34164.2	36510.8
67.5°	20096.1	20576.1	24205.8	29764.3	36567.8	40444.3	40503.9	38298.5	36768.4	34424.7	30697.4
70°	14317.8	14695.0	17697.9	24954.5	34885.9	44532.3	44735.9	40916.3	36152.6	30529.2	21446.9
72.5°	6798.2	7028.7	9871.7	16241.1	27683.5	40802.4	41195.7	37574.1	30740.8	22602.6	11700.1
75°	2498.5	2569.0	3336.7	6909.4	16056.8	30089.7	30553.6	26934.8	20378.1	11252.4	4457.0
77.5°	1497.5	1543.6	1871.8	2916.2	6315.3	17198.8	17885.2	14648.8	8905.9	4188.4	2192.0
80°	1047.2	1079.7	1342.7	1814.8	2984.0	6553.9	7164.3	5978.8	3548.2	2650.4	1595.1
82.5°	708.0	724.4	943.9	1226.1	1983.0	2341.2	2525.6	2658.4	2392.6	1972.1	1011.9
85°	463.9	480.1	640.2	808.4	1261.4	1209.8	1237.0	1565.2	1747.1	1340.1	561.5
87.5°	265.9	276.7	385.3	431.4	618.6	512.8	518.1	824.6	1117.6	903.3	341.9
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°	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0	6470.0
2.5°	6445.5	6410.2	6331.6	6282.7	6236.7	6225.8	6206.7	6204.1	6201.3	6201.3	6193.2
5°	6301.7	6242.1	6120.0	6052.2	5995.2	5989.7	5987.1	6000.6	6006.0	6011.5	6003.4
7.5°	6209.4	6128.1	5976.2	5878.5	5810.6	5794.3	5821.6	5884.0	5924.6	5940.9	5932.8
10°	6152.5	6052.2	5875.9	5770.1	5713.0	5704.9	5740.2	5813.4	5897.6	5930.0	5927.3
12.5°	6087.4	5973.5	5786.3	5675.0	5642.6	5658.8	5704.9	5772.7	5859.6	5911.0	5913.8
15°	6022.2	5889.4	5696.7	5599.0	5585.5	5607.2	5650.7	5702.3	5770.1	5821.6	5826.9
17.5°	5943.6	5805.2	5612.7	5512.3	5501.4	5512.3	5515.1	5542.2	5585.5	5634.3	5648.0
20°	5859.6	5718.5	5517.7	5417.4	5368.5	5325.2	5276.3	5281.8	5295.2	5344.0	5354.9
22.5°	5799.8	5658.8	5444.4	5306.1	5175.9	5045.7	4948.0	4934.5	4939.9	4980.7	4994.1
25°	5805.2	5656.1	5425.5	5186.8	4902.0	4693.0	4562.9	4541.1	4538.3	4568.2	4587.3
27.5°	5911.0	5761.9	5496.0	5064.6	4603.5	4294.3	4155.9	4139.6	4117.9	4126.1	4147.7
30°	6147.1	6008.8	5666.9	4939.9	4280.8	3903.7	3759.9	3743.5	3713.8	3700.2	3716.5
32.5°	6532.2	6418.3	5916.4	4820.6	3957.9	3570.0	3423.5	3388.1	3369.3	3353.0	3366.5
35°	7172.4	7123.6	6250.1	4690.3	3673.1	3312.3	3179.3	3125.1	3098.0	3127.8	3149.5
37.5°	8176.3	8203.3	6687.0	4486.9	3453.4	3141.4	3030.2	2967.7	2927.0	2951.6	2975.8
40°	9597.8	9616.6	7169.8	4199.3	3263.5	3041.0	2921.6	2864.7	2807.7	2764.3	2761.6
42.5°	11464.0	11271.5	7644.4	3887.3	3043.6	2978.6	2845.7	2775.1	2688.3	2569.0	2544.5
45°	13677.7	13002.2	8005.2	3529.4	2796.9	2902.7	2761.6	2664.0	2528.3	2398.0	2384.6
47.5°	16227.6	14860.4	8181.7	3157.6	2566.3	2791.5	2658.4	2503.8	2333.0	2267.9	2259.6
50°	19341.9	17065.9	8265.8	2796.9	2365.4	2644.9	2509.2	2327.5	2183.8	2170.1	2162.0
52.5°	22887.3	19719.0	8292.9	2501.2	2199.9	2455.1	2387.2	2210.9	2097.0	2107.9	2107.9
55°	26598.5	22458.7	7923.9	2286.8	2048.1	2259.6	2305.8	2164.7	2069.9	2113.3	2129.5
57.5°	30005.6	24886.6	6762.9	2121.3	1904.3	2110.5	2275.9	2208.2	2143.0	2319.5	2330.3
60°	32620.7	26321.7	5051.1	1972.1	1798.5	2058.9	2354.6	2373.6	2389.9	2810.3	2867.4
62.5°	33168.7	25844.2	3472.3	1855.4	1749.7	2102.4	2498.5	2501.2	2482.1	2775.1	2810.3
65°	30653.9	22825.0	2525.6	1790.4	1709.0	2181.1	2620.5	2563.6	2438.8	2661.1	2596.1
67.5°	24344.2	17196.1	2102.4	1741.5	1649.4	2175.7	2750.7	2620.5	2414.4	2606.9	2501.2
70°	15801.7	10397.9	1871.8	1700.9	1578.9	2072.5	2826.6	2615.1	2343.8	2425.2	2300.4
72.5°	7709.7	4649.6	1717.2	1641.3	1505.6	1928.8	2823.9	2566.3	2270.6	2265.2	2197.3
75°	3016.6	2129.5	1576.0	1551.7	1380.8	1766.0	2748.1	2495.8	2183.8	2097.0	2072.5
77.5°	1766.0	1519.2	1397.0	1418.8	1231.5	1603.2	2636.7	2373.6	2064.3	1961.3	1934.2
80°	1285.8	1136.6	1191.0	1226.1	1052.5	1440.4	2487.5	2224.5	1931.4	1983.0	1945.0
82.5°	824.6	732.5	965.8	1001.0	876.1	1275.0	2324.9	2067.1	1744.2	1584.3	1546.3
85°	420.4	463.9	718.9	762.3	675.4	1047.2	2126.7	1858.2	1532.7	1318.4	1340.1
87.5°	236.1	317.5	458.5	512.8	477.4	805.7	1725.4	1532.7	1250.6	1017.3	895.3
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)