

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: P269508

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40135.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
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: 25 FT

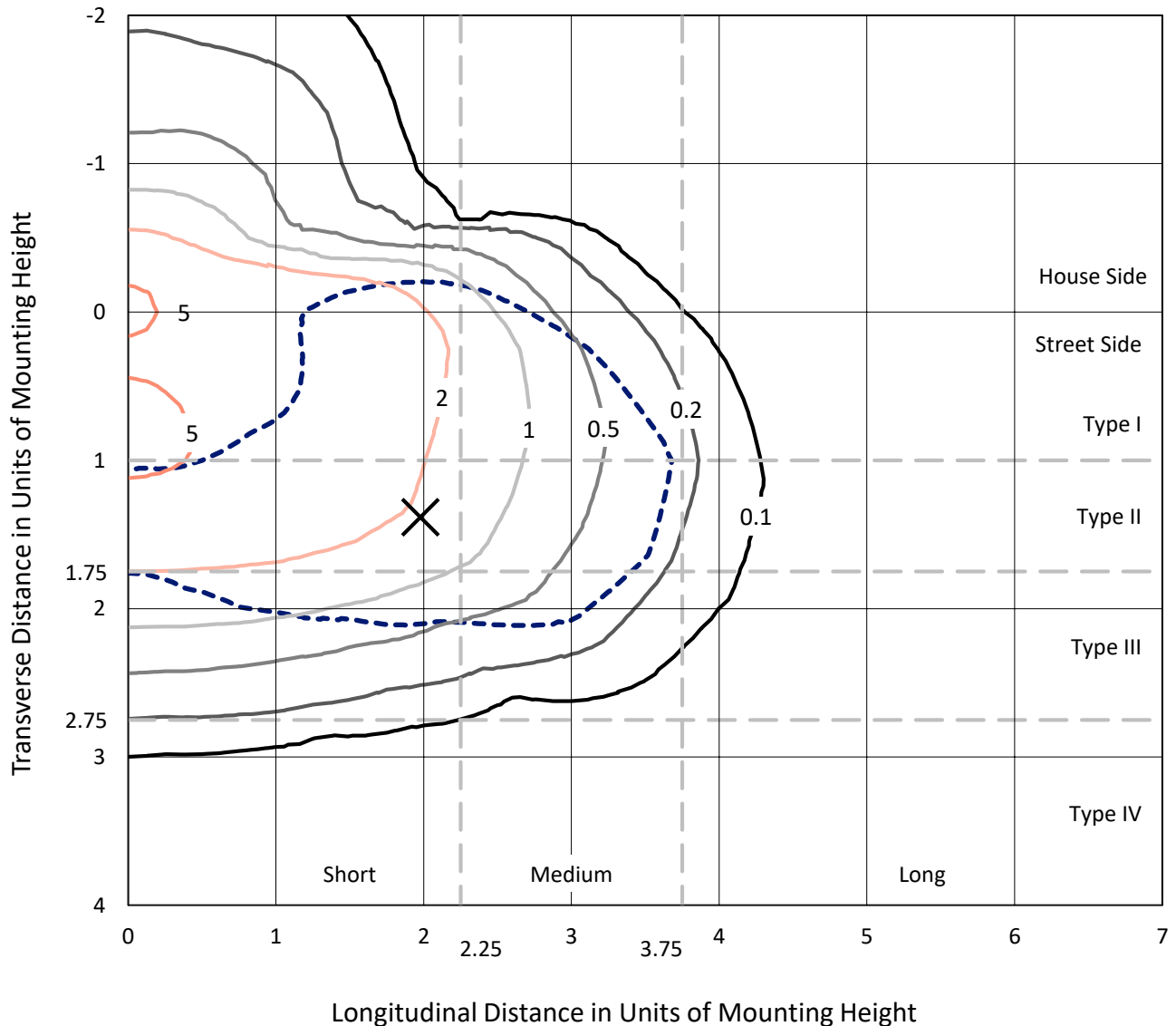


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

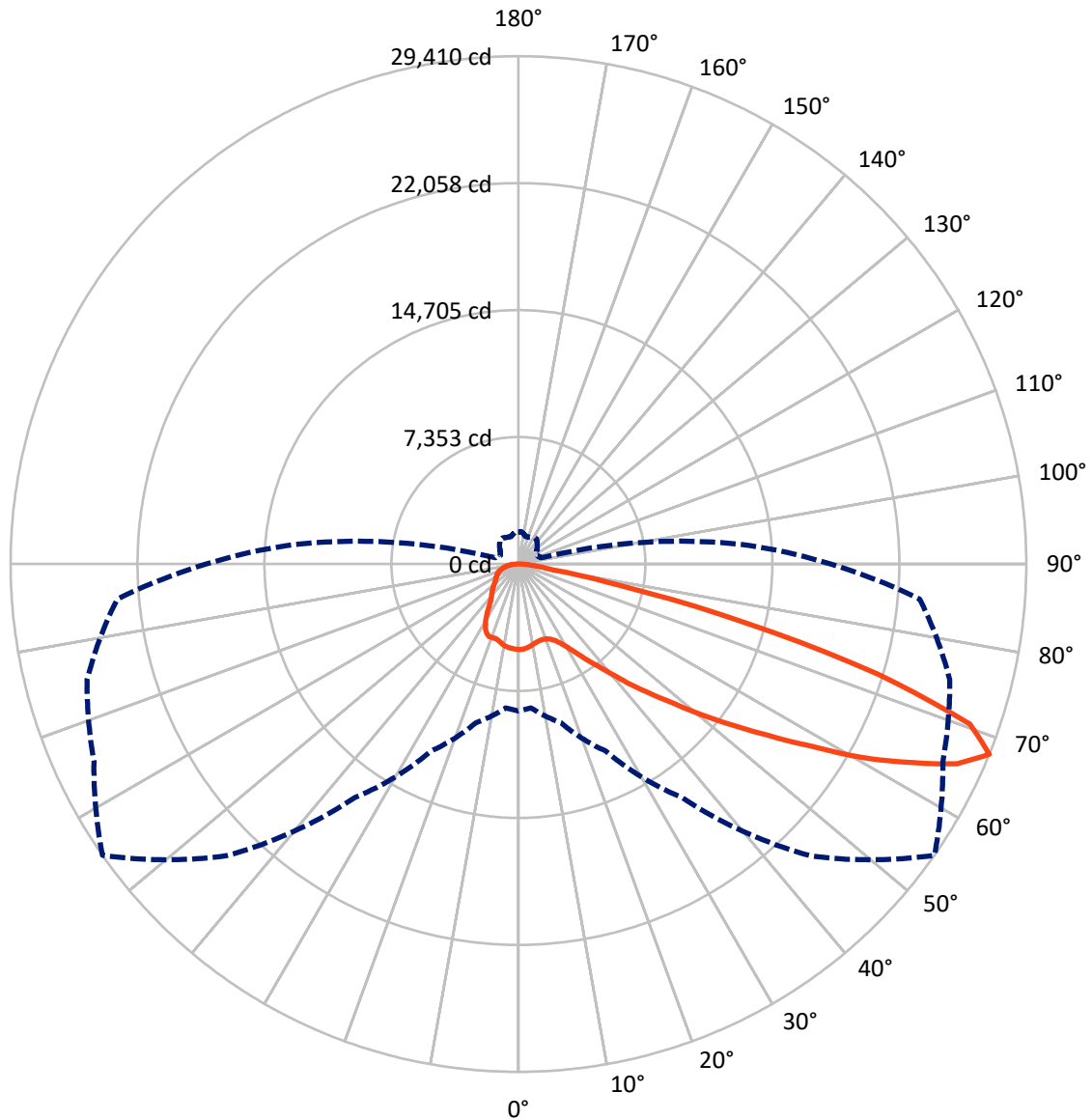


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8670.1	0.0	8670.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	31465.5	0.0	31465.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	40135.7	0.0	40135.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.0	1.2
10°-20°	1308.3	3.3
20°-30°	2191.6	5.5
30°-40°	3603.9	9.0
40°-50°	6066.5	15.1
50°-60°	9548.2	23.8
60°-70°	11394.8	28.4
70°-80°	4893.2	12.2
80°-90°	667.1	1.7
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°	40135.7	100.0
0°-180°	40135.7	100.0



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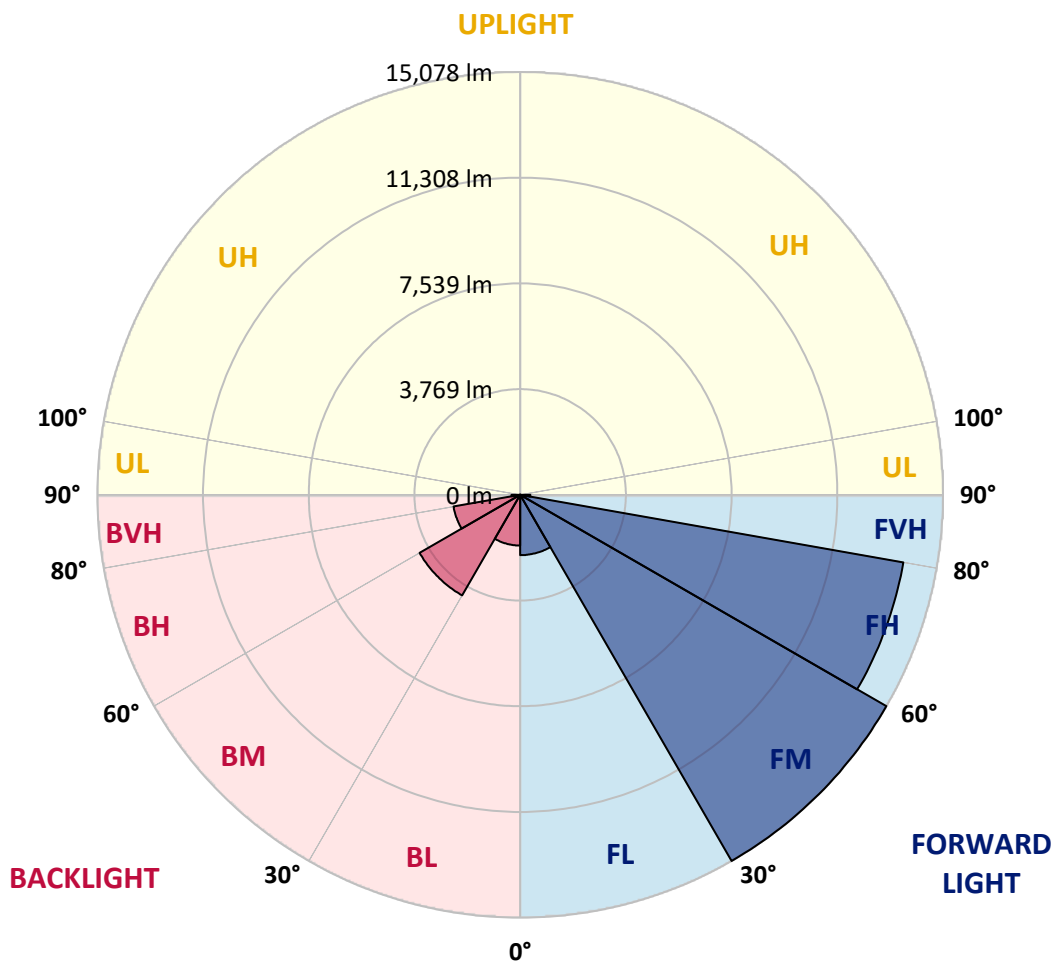
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.4	5.4			
FM (30°-60°)	15077.9	37.6			
FH (60°-80°)	13875.1	34.6			G5
FVH (80°-90°)	361.1	0.9			G3/500
BL (0°-30°)	1810.5	4.5	B3/2500		
BM (30°-60°)	4140.8	10.3	B3/5000		
BH (60°-80°)	2412.9	6.0	B3/2500		G3/2500
BVH (80°-90°)	306.0	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2
2.5°	4906.5	4908.5	4912.3	4927.8	4941.4	4937.5	4939.5	4931.8	4929.8	4918.2	4929.8
5°	4844.5	4850.3	4852.3	4877.4	4893.0	4896.8	4891.0	4881.3	4869.7	4858.0	4863.9
7.5°	4702.9	4718.4	4720.5	4755.3	4780.5	4813.5	4815.5	4817.3	4811.5	4803.7	4815.5
10°	4613.9	4617.6	4615.8	4641.0	4660.3	4697.1	4718.4	4755.3	4770.8	4774.8	4782.4
12.5°	4607.9	4604.2	4598.3	4598.3	4592.4	4607.9	4646.8	4699.2	4736.0	4747.5	4757.2
15°	4670.0	4668.1	4648.6	4619.7	4582.9	4571.1	4604.2	4662.3	4710.7	4736.0	4745.7
17.5°	4809.5	4797.9	4766.9	4701.0	4621.6	4590.6	4594.4	4642.9	4699.2	4732.0	4741.8
20°	5065.5	5065.5	4999.5	4875.6	4734.0	4660.3	4625.5	4654.5	4708.7	4753.4	4766.9
22.5°	5507.5	5511.3	5400.9	5197.4	4958.9	4801.8	4714.7	4708.7	4772.8	4823.2	4838.7
25°	6133.6	6118.1	5963.0	5672.3	5309.7	5050.0	4898.7	4863.9	4918.2	4974.4	4993.8
27.5°	6862.5	6806.3	6622.1	6271.2	5802.2	5422.2	5189.6	5133.4	5185.6	5249.6	5269.1
30°	7583.8	7525.6	7306.5	6922.7	6401.1	5920.4	5587.0	5495.8	5569.5	5660.6	5672.3
32.5°	8304.8	8304.8	8060.6	7612.7	7044.8	6515.5	6116.2	6007.7	6129.8	6240.3	6265.5
35°	9167.6	9171.3	8934.9	8396.0	7785.3	7225.1	6785.0	6705.5	6889.7	6967.3	7027.4
37.5°	10227.9	10249.2	9944.9	9293.5	8624.6	8035.3	7511.9	7403.4	7587.5	7798.8	7992.7
40°	11373.6	11400.7	11065.3	10262.7	9594.0	8977.5	8411.5	8215.7	8522.0	8925.2	9175.3
42.5°	12466.9	12606.5	12282.7	11457.0	10737.7	10100.0	9526.2	9241.1	9625.0	10233.8	10450.8
45°	14046.8	14147.6	13583.6	12835.3	12158.6	11445.3	10685.3	10384.9	10922.0	11689.6	11734.2
47.5°	15099.5	15024.0	14737.1	14271.7	13843.3	13176.5	12032.6	11703.2	12416.6	13319.9	13069.8
50°	15659.8	15683.0	15644.3	15671.4	15686.9	15268.2	13684.4	13232.8	14083.7	15175.2	14599.3
52.5°	16183.1	16028.1	16156.0	16791.8	17559.6	17404.5	15481.4	15010.4	15871.1	17234.0	16216.2
55°	16171.6	15935.0	16351.8	17474.3	19139.5	19318.0	17499.5	16956.6	17761.2	19441.9	17929.8
57.5°	15599.6	15611.4	16252.9	17722.4	20240.6	21116.8	19841.3	19027.1	19765.6	21679.1	19494.3
60°	14812.6	14919.2	15843.9	17681.7	21122.7	22592.2	22714.3	21258.4	21729.5	23712.6	20789.3
62.5°	13542.8	13655.2	14930.9	17259.0	20988.9	24013.1	25311.9	23790.2	23782.4	24945.6	21169.2
65°	11540.3	11507.4	12846.9	15679.1	19866.5	25063.8	27892.2	25978.9	25329.4	24964.9	20405.4
67.5°	8510.4	8363.0	9512.6	11941.6	16512.7	23887.1	29410.1	27118.7	25856.6	23323.0	18071.4
70°	4416.1	4268.7	5199.2	6973.1	10859.9	18643.2	27729.3	26529.4	24691.6	19550.5	14157.4
72.5°	1888.1	1862.9	2241.0	3059.1	5253.6	10753.3	21743.0	22962.4	21186.6	14566.5	9733.6
75°	1269.8	1261.9	1403.5	1667.2	2363.1	4363.7	13606.8	16299.4	15500.9	9031.7	5474.5
77.5°	996.4	986.8	1070.2	1198.0	1531.5	1721.4	6038.6	8750.7	8099.4	3931.4	2396.0
80°	779.3	771.6	823.8	893.6	1101.1	1085.6	1987.1	3481.7	2694.6	1506.3	1165.1
82.5°	614.5	614.5	657.2	659.1	781.3	740.6	1037.2	1533.3	1345.4	878.2	713.4
85°	562.2	562.2	606.7	492.5	509.9	467.2	643.5	909.2	853.0	360.6	310.2
87.5°	283.1	275.3	509.9	436.1	277.1	248.1	314.0	440.1	473.0	199.7	155.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2	4949.2
2.5°	4925.9	4924.0	4927.8	4929.8	4945.3	4966.5	4976.3	4989.8	4997.6	4993.8
5°	4867.7	4871.6	4887.0	4898.7	4925.9	4960.8	4980.3	4995.7	5009.3	5003.5
7.5°	4819.2	4829.0	4852.3	4861.9	4877.4	4887.0	4885.3	4891.0	4902.7	4889.0
10°	4792.2	4803.7	4821.3	4807.6	4770.8	4718.4	4670.0	4644.9	4652.6	4642.9
12.5°	4765.0	4780.5	4766.9	4702.9	4600.2	4532.4	4495.6	4499.4	4516.9	4520.7
15°	4749.5	4755.3	4697.1	4577.0	4472.3	4462.6	4482.0	4478.1	4480.0	4480.0
17.5°	4749.5	4734.0	4625.5	4505.2	4460.7	4443.1	4383.1	4307.6	4274.6	4262.9
20°	4774.8	4734.0	4602.1	4522.6	4425.8	4276.6	4117.6	3978.0	3915.9	3898.5
22.5°	4850.3	4780.5	4668.1	4530.4	4255.2	4005.2	3753.1	3586.4	3473.9	3454.5
25°	5003.5	4925.9	4797.9	4427.7	3983.8	3627.0	3340.2	3154.0	3041.7	3026.1
27.5°	5271.0	5220.6	4867.7	4200.8	3623.3	3241.3	2975.7	2832.3	2749.0	2743.1
30°	5674.2	5649.0	4832.8	3865.4	3179.2	2867.1	2739.2	2655.8	2593.8	2591.9
32.5°	6317.8	6114.3	4718.4	3456.5	2774.1	2601.5	2549.2	2498.8	2450.3	2450.3
35°	7145.6	6490.3	4501.3	3018.3	2527.9	2454.2	2388.4	2308.9	2244.9	2241.0
37.5°	8118.7	6722.9	4111.7	2665.5	2411.6	2355.4	2258.3	2140.2	2027.7	2008.4
40°	9101.5	6792.8	3563.0	2448.4	2337.8	2256.5	2138.2	1998.6	1890.2	1884.3
42.5°	10003.0	6659.0	2981.6	2299.1	2264.3	2155.8	2031.6	1907.6	1822.2	1820.3
45°	10759.1	6312.0	2492.9	2157.5	2186.7	2064.6	1954.1	1853.3	1787.4	1773.9
47.5°	11470.5	5821.6	2149.9	2008.4	2109.2	2014.2	1921.1	1826.2	1762.1	1752.5
50°	12296.4	5292.4	1909.4	1862.9	2041.3	1996.8	1948.2	1849.4	1742.8	1731.2
52.5°	13296.6	4834.8	1721.4	1735.0	1988.9	2020.0	2018.0	1915.2	1729.1	1713.6
55°	14413.2	4326.9	1579.8	1630.3	1967.6	2062.7	2035.5	1977.3	1740.8	1717.6
57.5°	15512.4	3733.6	1481.0	1550.8	1936.7	2058.7	1952.1	1868.7	1768.0	1735.0
60°	16336.3	2936.9	1405.5	1481.0	1868.7	1994.7	1861.0	1750.5	1762.1	1737.0
62.5°	16390.7	2270.0	1314.4	1420.9	1766.1	1930.7	1800.9	1698.2	1787.4	1764.1
65°	15427.1	1715.7	1227.2	1349.3	1655.5	1890.2	1742.8	1669.1	1839.6	1814.4
67.5°	12988.5	1380.2	1153.5	1275.6	1545.1	1804.9	1690.4	1642.0	1886.3	1841.6
70°	9376.9	1176.7	1081.6	1186.4	1446.2	1707.9	1643.9	1593.6	1760.1	1690.4
72.5°	5773.0	1019.7	1000.4	1068.2	1370.5	1607.1	1574.1	1502.3	1585.8	1529.5
75°	2882.7	884.0	909.2	951.8	1263.9	1492.8	1457.8	1386.1	1397.8	1386.1
77.5°	1380.2	756.1	802.5	835.6	1126.4	1362.8	1326.0	1252.2	1238.8	1240.6
80°	874.3	632.0	676.6	699.8	1006.1	1211.6	1174.8	1101.1	1256.2	1165.1
82.5°	546.7	513.7	525.4	568.0	876.2	1054.6	1006.1	940.2	1132.1	895.6
85°	302.4	358.7	374.1	411.0	674.6	882.0	833.5	750.3	672.7	661.1
87.5°	180.3	213.3	219.0	246.1	453.6	637.7	564.1	535.0	443.9	442.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)