

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: P269680

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269680
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-09-LED-E1-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 50362.7 lumens
Efficiency: N/A
Efficacy: 87.6 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): 575
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

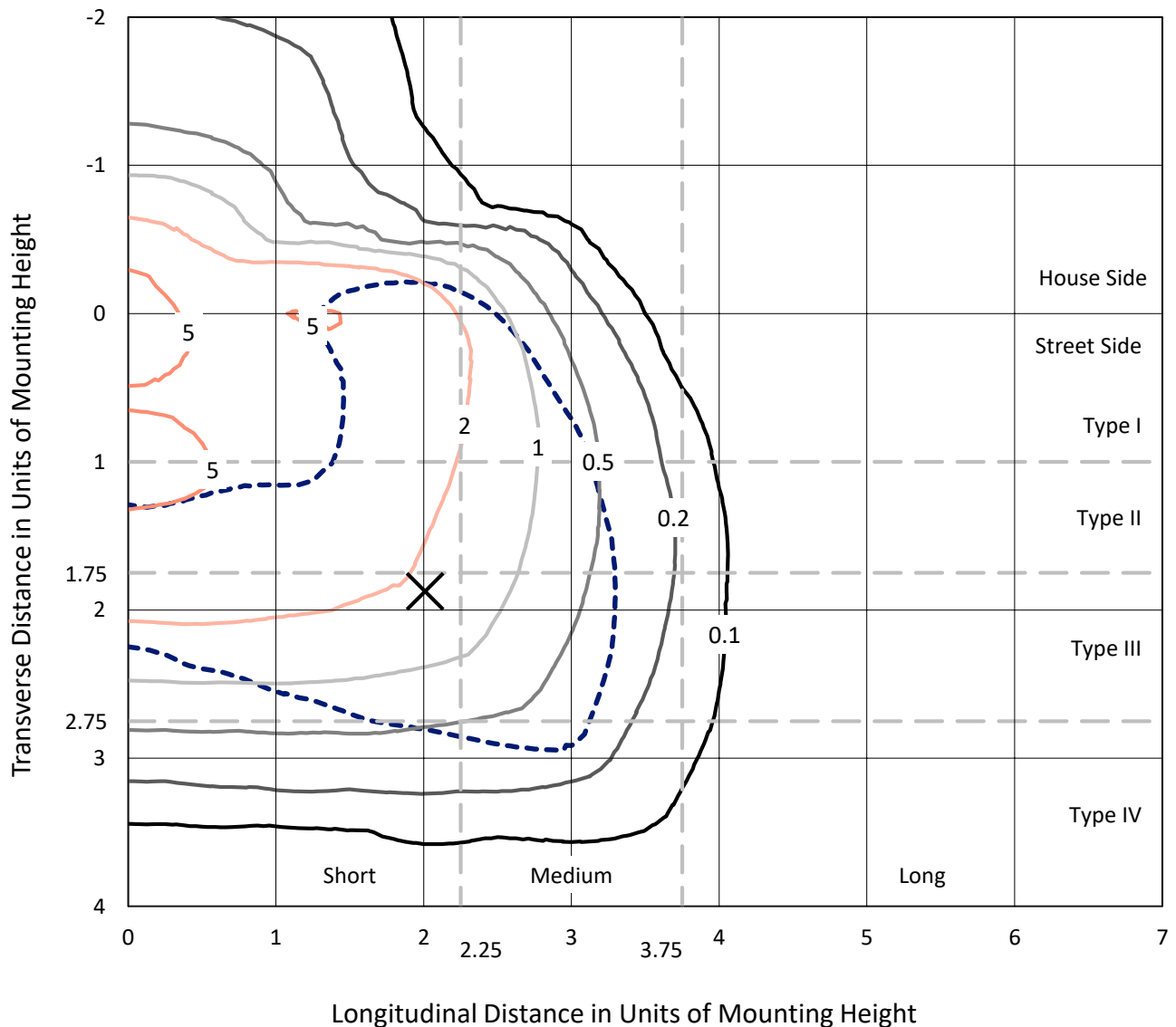


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

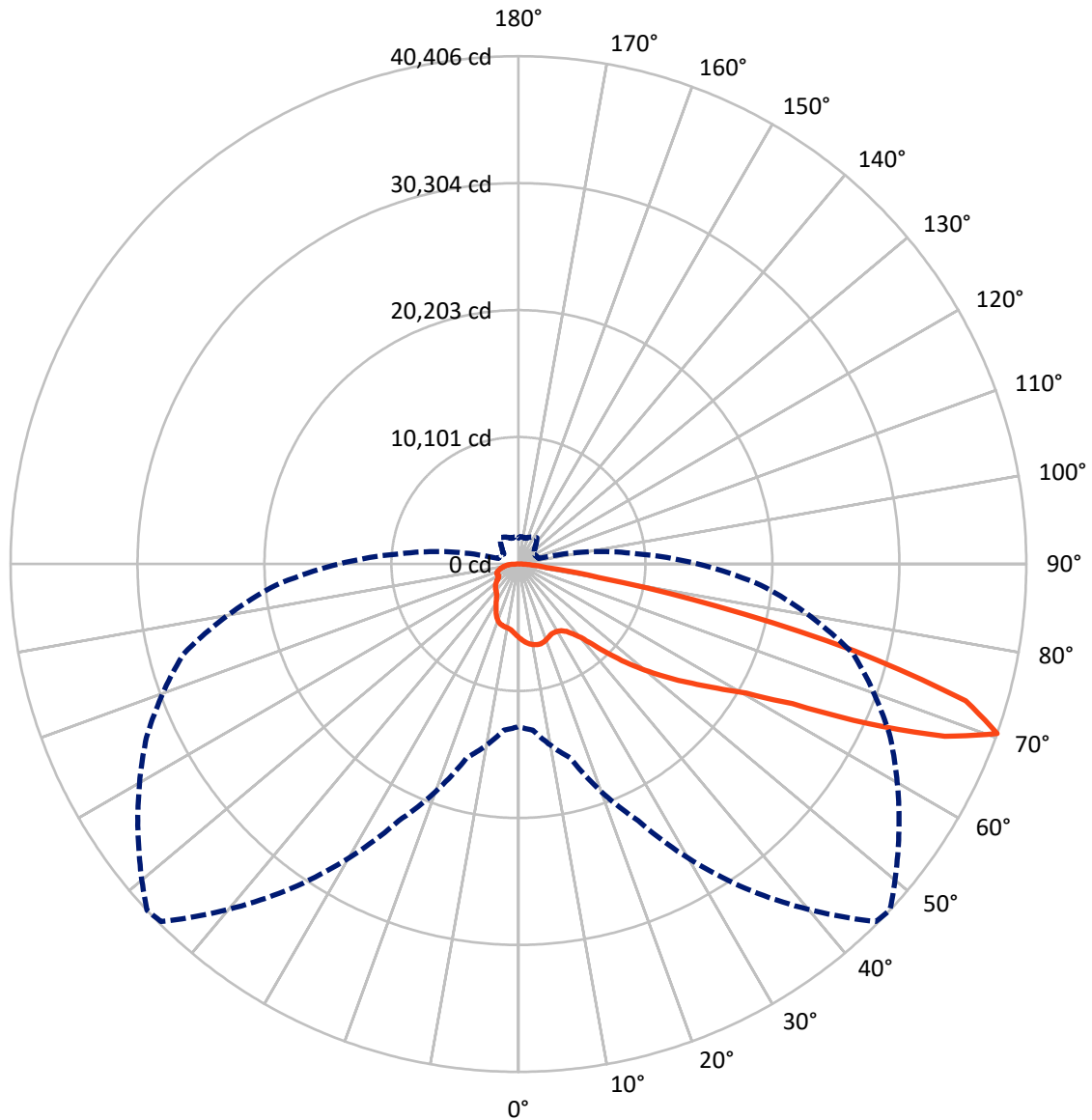


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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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	10506.6	0.0	10506.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	39856.1	0.0	39856.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	50362.7	0.0	50362.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	1.1
10°-20°	1642.7	3.3
20°-30°	2425.8	4.8
30°-40°	3525.8	7.0
40°-50°	6345.2	12.6
50°-60°	10992.4	21.8
60°-70°	15689.3	31.2
70°-80°	8054.1	16.0
80°-90°	1127.6	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°	50362.7	100.0
0°-180°	50362.7	100.0



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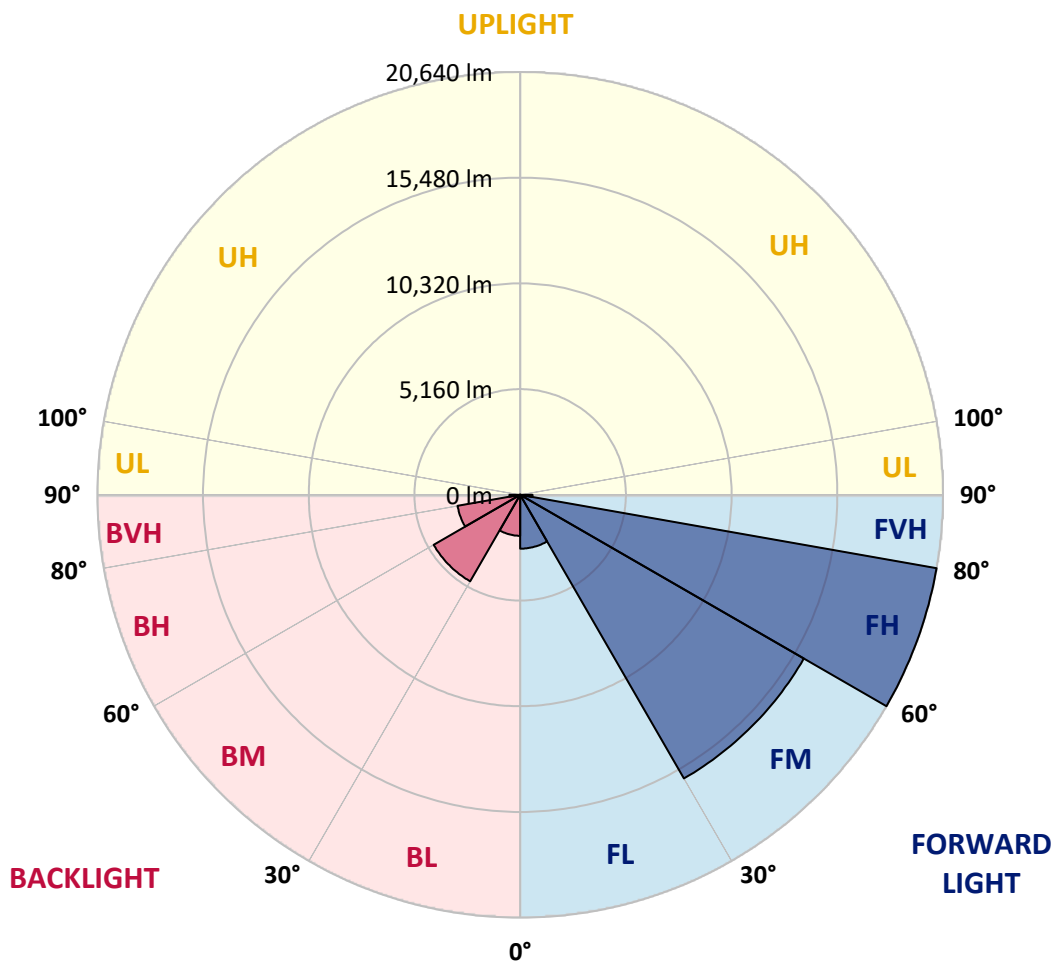
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2627.8	5.2			
FM	(30°-60°)	15986.5	31.7			
FH	(60°-80°)	20640.0	41.0			G5
FVH	(80°-90°)	601.7	1.2			G4/750
BL	(0°-30°)	2000.5	4.0	B3/2500		
BM	(30°-60°)	4876.9	9.7	B3/5000		
BH	(60°-80°)	3103.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	525.9	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°	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7
2.5°	6186.6	6174.4	6169.5	6159.7	6147.6	6086.1	6074.0	6029.9	5968.6	5904.9	5838.8
5°	6593.4	6591.0	6563.9	6515.0	6436.5	6301.8	6270.0	6162.2	6017.6	5878.0	5738.4
7.5°	6951.2	6929.0	6877.7	6779.6	6642.3	6458.6	6414.5	6265.0	6066.7	5875.5	5686.8
10°	7213.3	7201.1	7088.3	6953.6	6774.7	6571.3	6519.9	6353.4	6135.2	5892.6	5657.4
12.5°	7362.8	7338.3	7208.4	7046.7	6833.4	6635.1	6583.6	6414.5	6169.5	5892.6	5615.8
15°	7352.9	7335.7	7205.9	7029.5	6814.0	6639.9	6593.4	6424.4	6162.2	5868.2	5561.9
17.5°	7156.9	7164.3	7054.0	6880.1	6703.6	6571.3	6529.7	6372.8	6113.1	5819.1	5498.2
20°	6814.0	6848.1	6774.7	6620.4	6522.4	6431.7	6404.7	6272.4	6037.1	5748.1	5429.5
22.5°	6470.9	6502.7	6473.4	6343.6	6328.7	6274.9	6260.2	6164.6	5971.0	5704.0	5387.9
25°	6218.5	6247.9	6243.0	6130.4	6174.4	6172.0	6159.7	6113.1	5956.3	5704.0	5395.3
27.5°	6149.9	6159.7	6149.9	6047.0	6108.2	6157.3	6147.6	6140.2	6000.5	5775.1	5488.4
30°	6385.2	6370.4	6294.5	6086.1	6142.6	6211.2	6201.4	6206.3	6132.8	5961.2	5696.6
32.5°	7323.5	7257.3	7017.3	6431.7	6282.2	6318.9	6323.9	6404.7	6417.0	6247.9	6020.0
35°	8727.6	8654.0	8342.7	7357.8	6715.9	6588.4	6588.4	6711.0	6784.4	6659.6	6522.4
37.5°	10214.7	10133.9	9967.2	8641.8	7627.4	7056.5	7044.1	7129.9	7235.4	7264.8	7299.1
40°	11905.3	11819.5	11866.2	10082.4	8899.0	7867.4	7693.5	7632.3	7916.6	8105.1	8379.6
42.5°	13755.2	13716.0	13733.2	11687.3	10347.0	9080.2	8832.9	8516.8	8859.9	9195.5	9771.3
45°	15467.9	15502.2	15485.1	13404.9	11959.2	10560.3	10298.1	9685.5	10021.2	10596.9	11535.3
47.5°	16967.4	16825.3	17045.8	15281.6	13765.1	12216.5	11893.1	11072.2	11412.8	12123.4	13711.1
50°	18788.0	18768.3	18444.9	17785.7	15948.1	13880.3	13456.3	12505.7	13034.9	14022.4	16452.8
52.5°	20701.5	20346.3	20049.7	19733.6	18263.5	15585.6	15066.1	13934.1	14941.1	16183.3	19795.0
55°	21093.6	20934.2	21301.8	21833.5	20495.6	17357.1	16751.9	15725.2	17087.5	18653.1	23649.0
57.5°	21931.4	21929.0	22688.5	23636.7	22794.0	19236.2	18626.1	17888.7	19500.9	21483.1	27740.7
60°	22497.4	22656.7	24068.0	25908.0	25050.6	21407.1	20846.0	20385.3	22245.1	24646.3	31553.2
62.5°	22794.0	23009.5	24935.3	26829.3	28240.6	25021.1	24459.9	23796.0	25876.1	28115.6	33782.9
65°	21561.5	21985.4	24800.5	27625.7	31033.8	30879.4	30627.2	29460.9	30416.4	30857.4	32976.8
67.5°	18150.9	18584.6	21862.8	26883.2	33028.3	36529.5	36583.5	34591.5	33209.6	31092.7	27726.0
70°	12932.0	13272.5	15984.9	22539.2	31509.2	40221.9	40405.8	36955.8	32653.4	27574.2	19371.1
72.5°	6140.2	6348.4	8916.1	14669.1	25004.0	36853.0	37208.2	33937.2	27765.4	20414.8	10567.7
75°	2256.6	2320.3	3013.8	6240.5	14502.5	27177.2	27596.2	24327.7	18405.6	10163.3	4025.7
77.5°	1352.5	1394.1	1690.6	2633.9	5704.0	15534.1	16154.0	13230.9	8044.0	3783.0	1979.8
80°	945.7	975.2	1212.8	1639.1	2695.2	5919.7	6470.9	5400.3	3204.9	2393.9	1440.7
82.5°	639.6	654.1	852.6	1107.5	1791.1	2114.5	2281.1	2401.2	2161.1	1781.2	913.9
85°	419.0	433.7	578.1	730.1	1139.3	1092.8	1117.3	1413.8	1578.0	1210.3	507.3
87.5°	240.0	249.9	348.0	389.5	558.7	463.0	467.9	744.9	1009.4	815.9	308.7
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°	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7	5843.7
2.5°	5821.6	5789.8	5718.7	5674.7	5632.9	5623.1	5606.1	5603.5	5601.1	5601.1	5593.7
5°	5691.8	5637.9	5527.6	5466.4	5414.9	5410.0	5407.4	5419.7	5424.7	5429.5	5422.2
7.5°	5608.5	5534.9	5397.7	5309.5	5248.3	5233.5	5258.0	5314.5	5351.2	5365.8	5358.5
10°	5556.9	5466.4	5307.0	5211.4	5160.0	5152.7	5184.6	5250.8	5326.7	5356.1	5353.5
12.5°	5498.2	5395.3	5226.2	5125.8	5096.4	5111.0	5152.7	5213.9	5292.4	5338.8	5341.3
15°	5439.3	5319.4	5145.3	5057.2	5044.9	5064.6	5103.7	5150.3	5211.4	5258.0	5263.0
17.5°	5368.4	5243.3	5069.3	4978.8	4969.0	4978.8	4981.2	5005.6	5044.9	5089.0	5101.3
20°	5292.4	5165.0	4983.6	4893.0	4849.0	4809.6	4765.6	4770.4	4782.8	4826.9	4836.7
22.5°	5238.5	5111.0	4917.5	4792.5	4674.9	4557.3	4469.1	4456.9	4461.7	4498.5	4510.7
25°	5243.3	5108.7	4900.3	4684.8	4427.4	4238.8	4121.2	4101.7	4099.1	4126.1	4143.3
27.5°	5338.8	5204.2	4964.0	4574.4	4158.0	3878.6	3753.7	3738.9	3719.3	3726.7	3746.3
30°	5552.1	5427.1	5118.5	4461.7	3866.3	3525.8	3396.0	3381.2	3354.4	3342.1	3356.7
32.5°	5900.0	5797.1	5343.7	4353.9	3574.7	3224.5	3092.1	3060.3	3043.1	3028.4	3040.7
35°	6478.2	6434.1	5645.2	4236.3	3317.5	2991.6	2871.6	2822.6	2798.1	2825.0	2844.7
37.5°	7384.7	7409.3	6039.7	4052.6	3119.1	2837.2	2736.9	2680.5	2643.7	2665.8	2687.8
40°	8668.7	8685.8	6475.8	3792.9	2947.6	2746.7	2638.9	2587.4	2535.9	2496.7	2494.2
42.5°	10354.5	10180.4	6904.6	3511.0	2749.2	2690.2	2570.2	2506.5	2428.1	2320.3	2298.3
45°	12353.8	11743.6	7230.5	3187.6	2526.2	2621.7	2494.2	2406.1	2283.5	2166.0	2153.6
47.5°	14656.8	13422.0	7389.6	2851.9	2317.8	2521.3	2401.2	2261.6	2107.2	2048.3	2040.9
50°	17469.7	15413.9	7465.6	2526.2	2136.6	2389.0	2266.5	2102.3	1972.4	1960.1	1952.7
52.5°	20672.1	17810.2	7490.2	2259.1	1987.1	2217.3	2156.1	1996.9	1893.9	1903.8	1903.8
55°	24023.9	20284.9	7156.9	2065.6	1849.9	2040.9	2082.6	1955.3	1869.6	1908.7	1923.5
57.5°	27101.2	22477.7	6108.2	1916.1	1720.1	1906.3	2055.7	1994.4	1935.7	2094.8	2104.6
60°	29463.2	23774.0	4562.2	1781.2	1624.5	1859.8	2126.7	2143.8	2158.5	2538.4	2589.9
62.5°	29958.1	23342.7	3136.3	1675.9	1580.4	1898.8	2256.6	2259.1	2241.9	2506.5	2538.4
65°	27686.9	20615.7	2281.1	1617.0	1543.6	1970.0	2366.9	2315.4	2202.7	2403.7	2344.8
67.5°	21987.9	15531.7	1898.8	1573.0	1489.7	1965.0	2484.4	2366.9	2180.6	2354.5	2259.1
70°	14272.2	9391.5	1690.6	1536.2	1426.0	1871.9	2553.1	2362.0	2116.9	2190.4	2077.7
72.5°	6963.4	4199.5	1551.0	1482.4	1359.9	1742.1	2550.6	2317.8	2050.8	2045.9	1984.6
75°	2724.6	1923.5	1423.5	1401.4	1247.1	1595.1	2481.9	2254.1	1972.4	1893.9	1871.9
77.5°	1595.1	1372.2	1261.8	1281.4	1112.5	1448.1	2381.5	2143.8	1864.6	1771.5	1746.9
80°	1161.4	1026.7	1075.6	1107.5	950.6	1301.0	2246.8	2009.1	1744.5	1791.1	1756.7
82.5°	744.9	661.5	872.3	904.1	791.3	1151.5	2099.8	1867.0	1575.4	1430.9	1396.5
85°	379.8	419.0	649.3	688.6	610.0	945.7	1920.9	1678.4	1384.4	1190.8	1210.3
87.5°	213.2	286.6	414.1	463.0	431.2	727.6	1558.3	1384.4	1129.4	918.7	808.6
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)