

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: P191788

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66306 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

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

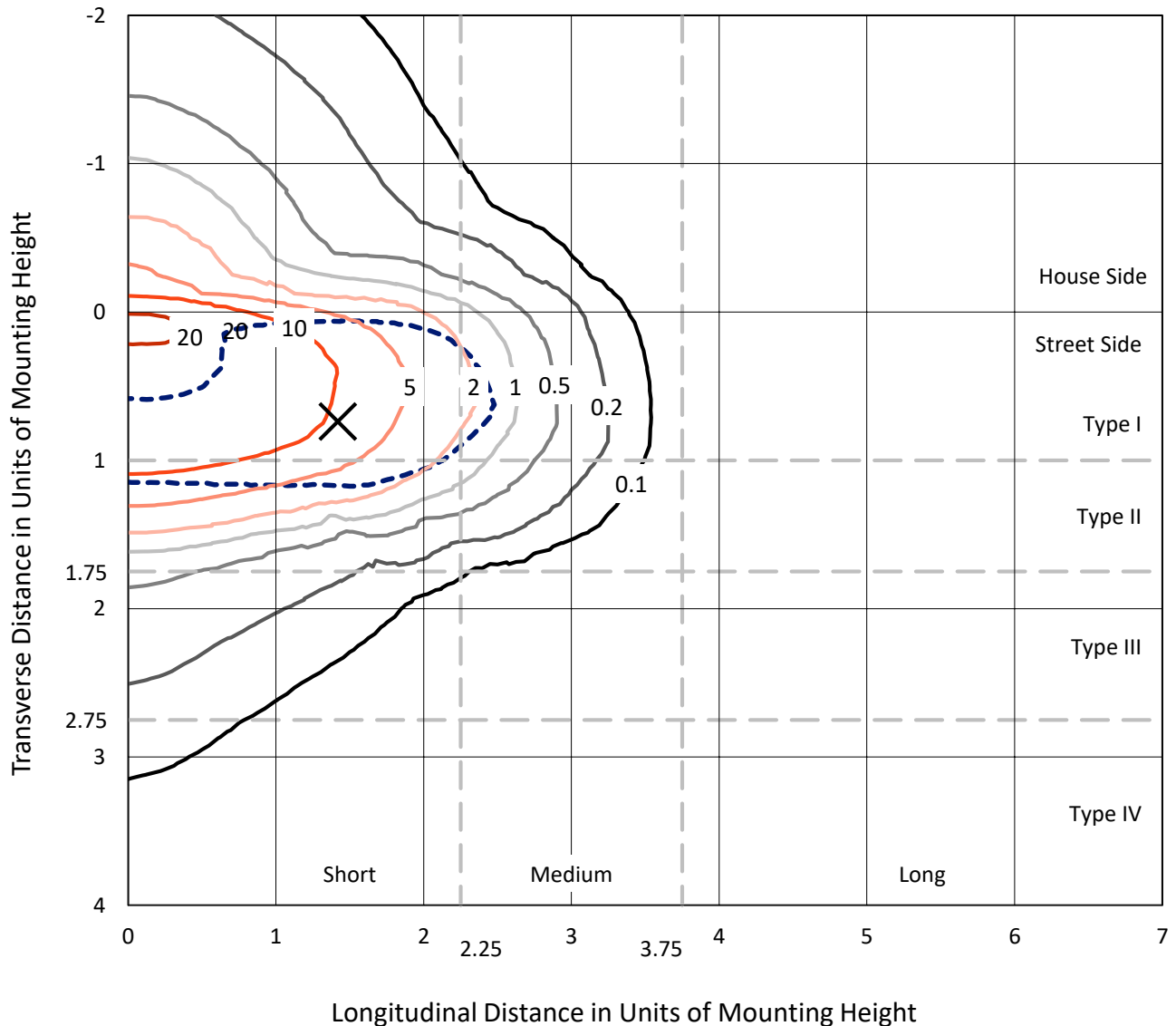


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

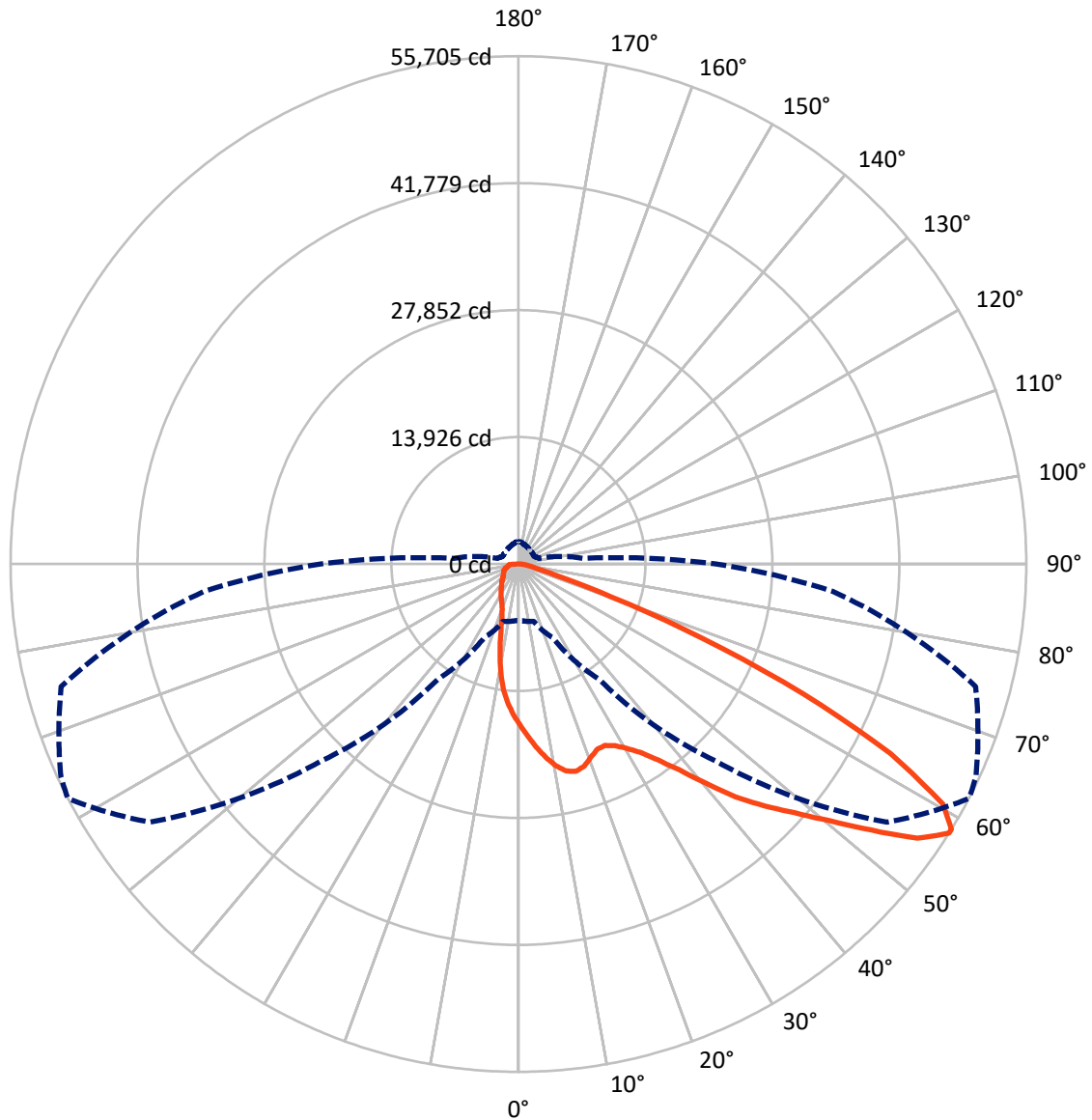


Based on 30 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10111.9	0.0	10111.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	56194.1	0.0	56194.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	66306.0	0.0	66306.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1575.2	2.4
10°-20°	4026.5	6.1
20°-30°	6508.9	9.8
30°-40°	10332.9	15.6
40°-50°	15119.2	22.8
50°-60°	15813.4	23.8
60°-70°	9342.6	14.1
70°-80°	2631.9	4.0
80°-90°	955.5	1.4
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°	66306.0	100.0
0°-180°	66306.0	100.0



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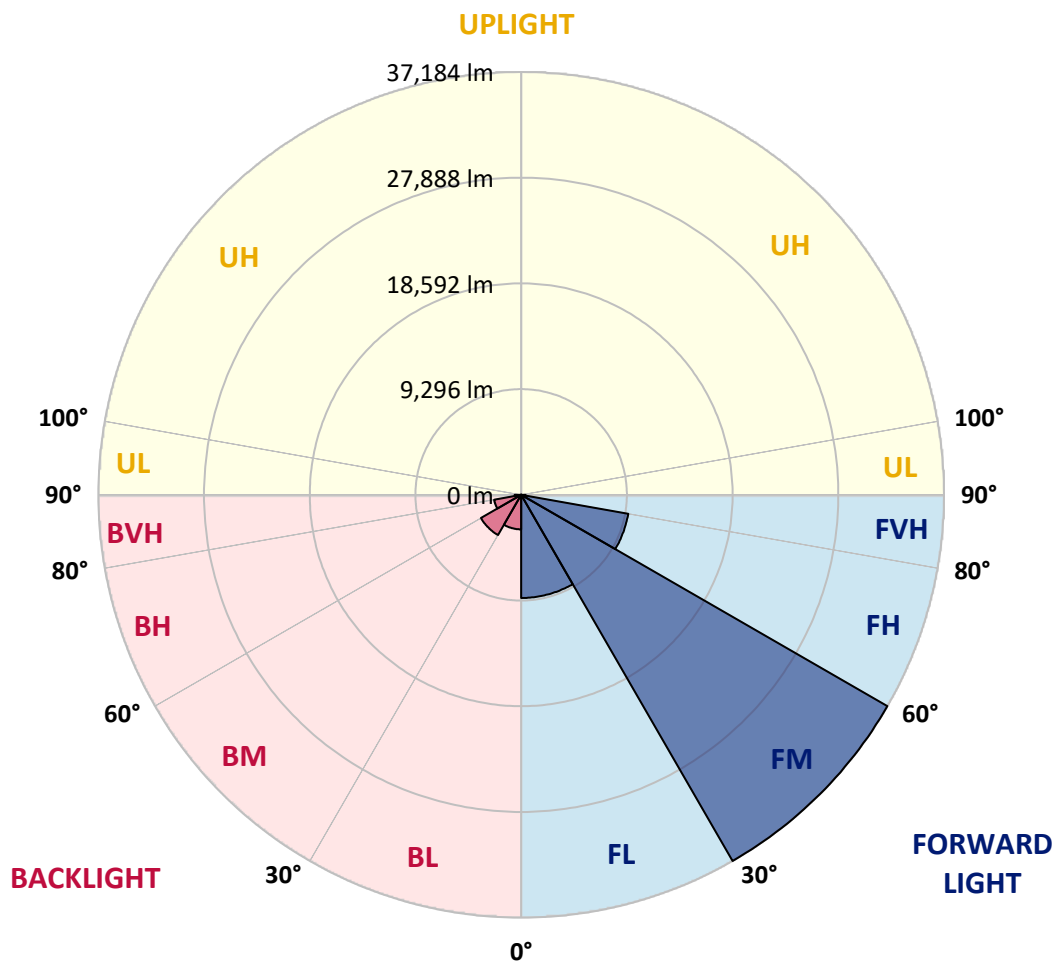
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9071.5	13.7			
FM	(30°-60°)	37184.0	56.1			
FH	(60°-80°)	9561.6	14.4			G4/12000
FVH	(80°-90°)	377.0	0.6			G3/500
BL	(0°-30°)	3039.2	4.6	B4/5000		
BM	(30°-60°)	4081.4	6.2	B3/5000		
BH	(60°-80°)	2412.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	578.6	0.9			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8
2.5°	20126.3	19963.9	19860.9	19770.3	19651.7	19398.8	19058.5	18843.0	18733.7	18362.2	17921.9
5°	22099.6	21955.9	21849.8	21728.0	21515.7	21119.2	20569.6	20132.5	19917.1	19174.0	18293.5
7.5°	21637.5	21696.8	21881.0	22202.6	22477.4	22424.3	21934.1	21378.3	21094.2	20060.7	18724.4
10°	18852.4	18955.4	19273.9	20026.4	21244.1	22493.0	22873.9	22489.9	22202.6	20938.1	19167.7
12.5°	18293.5	18290.4	18315.4	18515.2	19239.6	20997.4	22905.1	23292.3	23120.6	21774.9	19620.5
15°	18521.4	18527.7	18508.9	18593.2	18818.0	19514.3	21949.7	23601.4	23723.2	22617.9	20088.8
17.5°	19120.9	19105.3	19033.5	19033.5	19114.7	19386.3	20825.7	23314.1	23876.2	23364.1	20501.0
20°	20126.3	20054.5	19864.0	19689.2	19601.7	19748.5	20363.6	22652.2	23610.8	24016.7	20841.3
22.5°	21344.0	21287.8	20978.7	20604.0	20301.1	20298.0	20600.9	22074.6	23151.8	24631.7	21128.5
25°	22917.6	22827.1	22368.1	21768.6	21237.8	21034.9	21119.2	22046.5	22902.0	25299.9	21384.6
27.5°	24766.0	24600.5	24057.2	23192.4	22411.8	22002.8	21881.0	22555.4	23129.9	26127.3	21740.5
30°	27007.8	26817.3	26121.1	24993.9	23891.8	23220.5	22961.3	23457.8	23885.5	27135.8	22311.9
32.5°	29558.7	29284.0	28478.4	27235.7	25787.0	24762.9	24341.4	24650.5	24990.8	28350.4	23026.9
35°	33083.8	32755.9	31591.3	29877.2	28241.1	26833.0	26158.5	26383.4	26714.3	30161.3	24060.4
37.5°	35487.9	35341.2	34566.9	32955.8	31176.1	29555.6	28512.8	28643.9	28831.2	32425.0	25384.2
40°	35466.1	35525.4	35541.0	35556.6	34345.2	32793.4	31672.5	31535.1	31497.7	34910.3	26889.2
42.5°	33689.5	33933.0	34719.9	36315.4	37052.2	36340.3	35313.1	34916.6	34719.9	37839.0	28484.7
45°	30970.0	31101.1	32574.9	35690.9	38438.5	39852.9	39075.5	37826.5	37470.6	40530.4	29808.5
47.5°	29568.1	29711.7	30639.0	34036.1	38422.9	42691.1	43140.7	40761.5	40124.6	42872.2	30951.3
50°	26230.4	26530.1	27697.8	31157.3	37021.0	43996.2	47390.1	44258.5	42940.9	45151.4	32097.1
52.5°	20101.3	20563.4	21871.6	26423.9	33464.7	43349.9	50790.3	48498.5	46637.6	47511.9	33080.7
55°	12679.6	13023.1	14122.1	18661.9	26770.5	39987.2	52079.8	53085.2	51430.4	49747.4	33933.0
57.5°	6894.0	7047.0	7459.2	10303.6	17413.0	32553.0	50200.2	55695.4	55008.5	51645.8	34576.2
58°	6169.6	6272.7	6528.7	8929.7	15442.8	30520.4	49366.5	55704.8	55361.3	51923.7	34626.2
60°	4577.3	4524.2	4296.3	5095.6	8595.7	21084.8	44327.2	53475.5	54484.0	52264.0	34382.7
62.5°	4021.5	3893.5	3428.3	3375.2	4180.7	9713.4	33917.4	45807.1	48189.4	50321.9	32902.7
65°	3778.0	3640.6	3041.1	2847.5	3016.1	4108.9	19979.5	34354.6	37342.6	44433.3	29118.5
67.5°	3596.9	3418.9	2794.4	2529.1	2541.5	2716.4	8008.7	21637.5	25000.2	33736.3	22649.1
70°	3422.0	3228.4	2585.3	2279.3	2207.5	2148.1	3184.7	10831.2	13881.7	21309.6	14440.6
72.5°	3234.7	3044.2	2401.0	2082.6	1942.1	1745.4	2079.4	4430.5	6188.4	10081.9	6550.6
75°	2963.1	2791.3	2216.8	1907.7	1707.9	1445.6	1570.5	2313.6	2775.7	4015.3	3156.6
77.5°	2629.0	2488.5	2010.8	1764.1	1514.3	1174.0	1208.3	1604.9	1779.7	2298.0	1876.5
80°	1889.0	1938.9	1789.1	1586.1	1348.8	952.3	927.3	1170.9	1264.5	1476.8	1220.8
82.5°	1327.0	1355.1	1480.0	1295.8	1114.7	749.3	683.8	824.3	880.5	971.0	658.8
85°	914.8	883.6	1014.7	902.3	805.6	499.6	468.3	558.9	593.2	602.6	340.3
87.5°	549.5	549.5	587.0	484.0	434.0	259.2	252.9	318.5	340.3	324.7	187.3
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°	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8	17612.8
2.5°	17659.7	17438.0	16966.5	16588.7	16111.0	15614.6	15336.7	15040.1	14837.1	14690.4	14924.5
5°	17793.9	17341.2	16367.0	15442.8	14421.9	13360.3	12554.7	11805.4	11284.0	10959.2	11265.2
7.5°	18006.2	17310.0	15758.2	14178.3	12345.5	10578.3	8998.4	8008.7	7431.1	7146.9	7324.9
10°	18249.8	17260.0	15043.2	12464.2	9841.5	7615.3	6435.0	6035.4	5904.3	5851.2	5876.2
12.5°	18452.7	17153.9	14165.8	10391.0	7390.5	6013.5	5673.2	5663.8	5691.9	5698.2	5707.5
15°	18596.4	16997.7	12863.8	8230.4	5910.5	5479.6	5460.9	5517.1	5570.2	5592.0	5604.5
17.5°	18693.2	16676.2	11393.2	6506.9	5295.4	5220.5	5264.2	5336.0	5392.2	5407.8	5420.3
20°	18683.8	16204.7	9641.6	5426.5	4961.3	4961.3	5036.3	5092.5	5095.6	5076.8	5086.2
22.5°	18587.0	15558.4	7943.1	4852.0	4664.7	4717.8	4792.7	4739.6	4521.1	4377.5	4386.8
25°	18424.6	14787.2	6488.1	4486.7	4389.9	4483.6	4461.8	4062.1	3749.9	3609.4	3609.4
27.5°	18281.0	13875.5	5370.3	4168.3	4115.2	4230.7	3843.5	3481.4	3350.2	3284.6	3262.8
30°	18178.0	12891.9	4624.1	3862.3	3856.0	3771.7	3334.6	3234.7	3212.8	3159.8	3141.0
32.5°	18203.0	11895.9	4146.4	3593.8	3615.6	3228.4	3091.1	3112.9	3094.2	3038.0	3013.0
35°	18409.0	10949.9	3834.2	3350.2	3284.6	2916.2	2947.4	2988.0	2981.8	2903.7	2878.8
37.5°	18777.5	10053.8	3628.1	3147.3	2866.3	2760.1	2810.1	2872.5	2856.9	2803.8	2785.1
40°	19164.6	9210.8	3459.5	2988.0	2619.6	2653.9	2697.7	2732.0	2747.6	2763.2	2750.7
42.5°	19542.4	8330.3	3253.4	2825.7	2516.6	2554.0	2572.8	2607.1	2691.4	2750.7	2747.6
45°	19767.2	7502.9	3041.1	2594.6	2435.4	2457.2	2444.8	2513.4	2616.5	2713.3	2716.4
47.5°	20017.0	6859.7	2872.5	2382.3	2357.3	2372.9	2335.5	2404.2	2497.8	2616.5	2629.0
50°	20319.9	6475.6	2738.2	2213.7	2251.2	2251.2	2241.8	2304.3	2435.4	2572.8	2597.7
52.5°	20663.3	6400.7	2625.8	2091.9	2145.0	2141.9	2151.3	2244.9	2388.6	2522.8	2544.7
55°	21081.7	6603.6	2504.1	2001.4	2042.0	2054.5	2085.7	2191.8	2313.6	2466.6	2476.0
57.5°	21568.8	7015.8	2407.3	1929.6	1948.3	1988.9	2038.9	2135.6	2266.8	2435.4	2444.8
58°	21650.0	7103.2	2391.7	1923.3	1929.6	1976.4	2032.6	2126.3	2257.4	2441.6	2451.0
60°	21653.1	7393.6	2357.3	1895.2	1857.8	1935.8	1998.3	2091.9	2241.8	2463.5	2485.3
62.5°	20885.0	7390.5	2332.4	1854.6	1782.8	1879.6	1951.4	2060.7	2226.2	2516.6	2560.3
65°	18390.3	6716.0	2213.7	1792.2	1723.5	1829.7	1910.8	2038.9	2269.9	2747.6	2775.7
67.5°	14384.4	5504.6	1992.0	1704.8	1645.4	1779.7	1885.9	2035.7	2316.7	2800.7	2819.4
70°	9510.5	4118.3	1748.5	1604.9	1564.3	1720.4	1898.4	2141.9	2263.7	2688.3	2638.3
72.5°	4936.3	2891.2	1551.8	1480.0	1470.6	1667.3	2079.4	2129.4	2210.6	2529.1	2466.6
75°	2591.5	2007.6	1380.1	1342.6	1358.2	1654.8	2454.1	2073.2	2141.9	2419.8	2538.4
77.5°	1586.1	1620.5	1233.3	1217.7	1248.9	1617.3	2451.0	2001.4	2042.0	2226.2	2357.3
80°	1061.6	1314.5	1120.9	1124.0	1145.9	1480.0	2201.2	1889.0	1920.2	2104.4	2238.7
82.5°	671.3	777.5	1017.9	1070.9	1042.8	1220.8	1870.3	1720.4	1764.1	2407.3	2544.7
85°	340.3	487.1	883.6	1030.4	939.8	855.5	1517.4	1508.1	1529.9	1736.0	1814.1
87.5°	156.1	268.5	690.0	899.2	708.8	533.9	1102.2	1117.8	1205.2	1233.3	1233.3
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)