

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: P269693

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269693
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52514.1 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

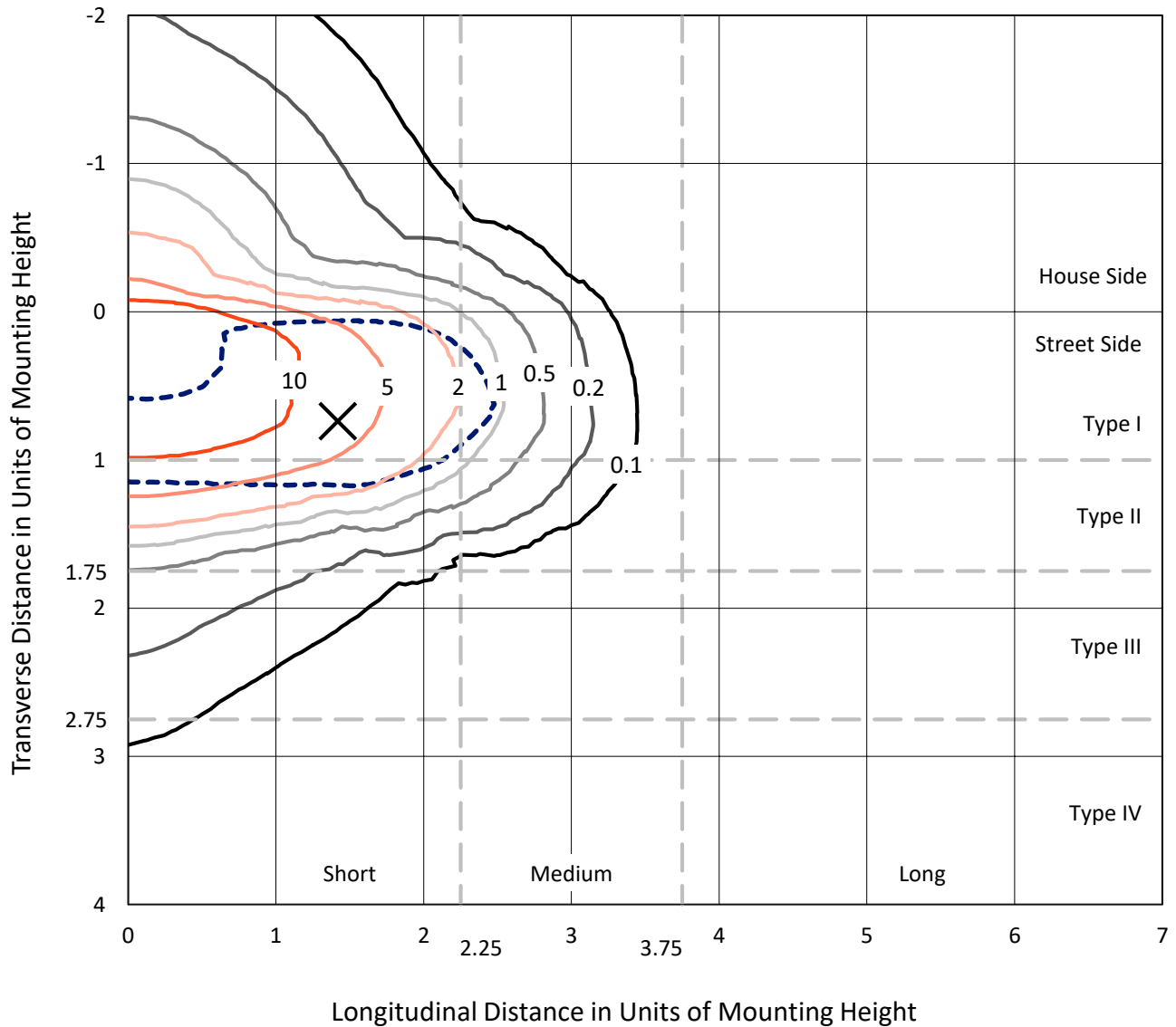
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

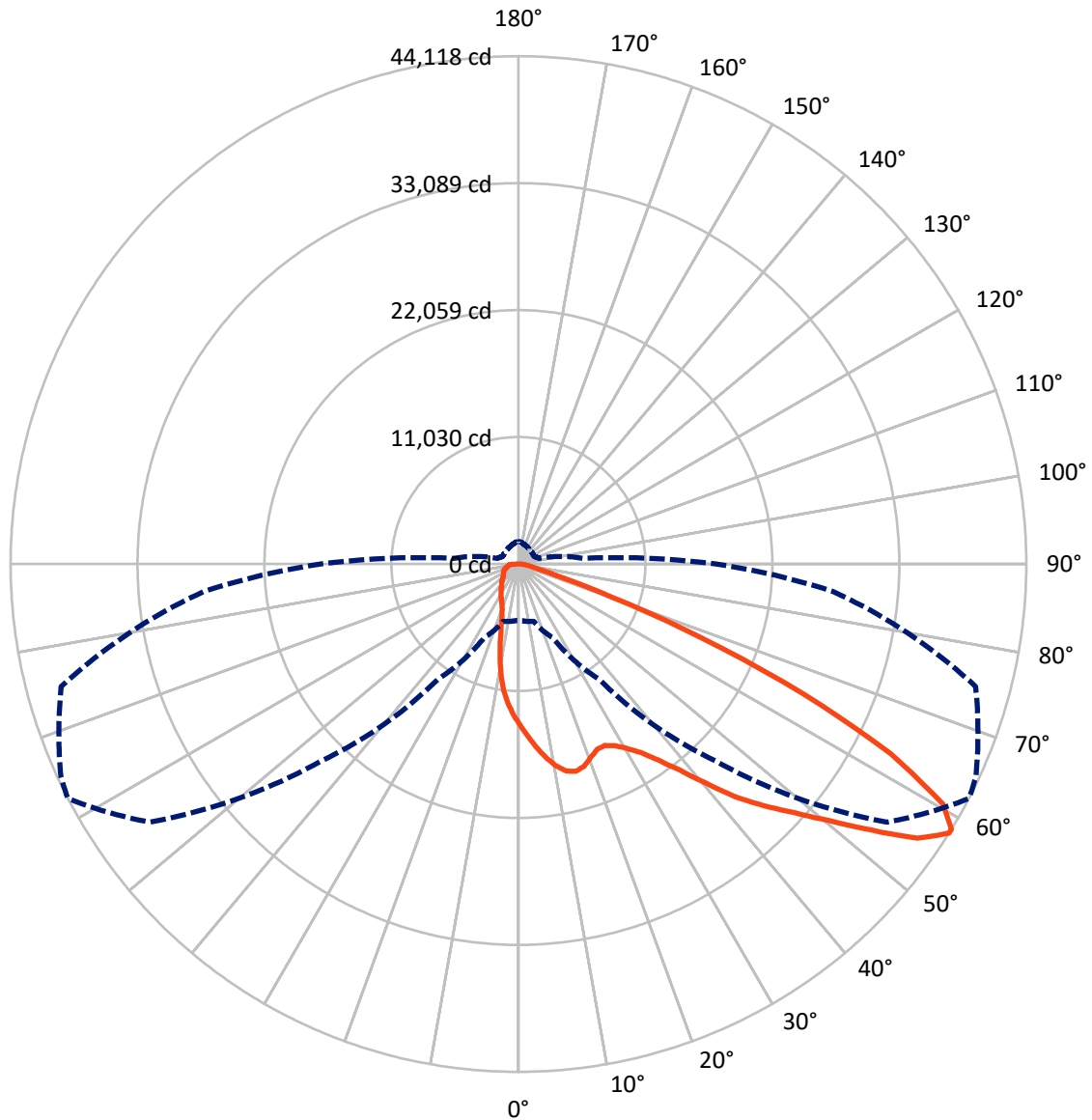
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.9 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	8008.6	0.0	8008.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	44505.5	0.0	44505.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	52514.1	0.0	52514.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.6	2.4
10°-20°	3189.0	6.1
20°-30°	5155.1	9.8
30°-40°	8183.6	15.6
40°-50°	11974.3	22.8
50°-60°	12524.2	23.8
60°-70°	7399.3	14.1
70°-80°	2084.4	4.0
80°-90°	756.7	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°	52514.1	100.0
0°-180°	52514.1	100.0



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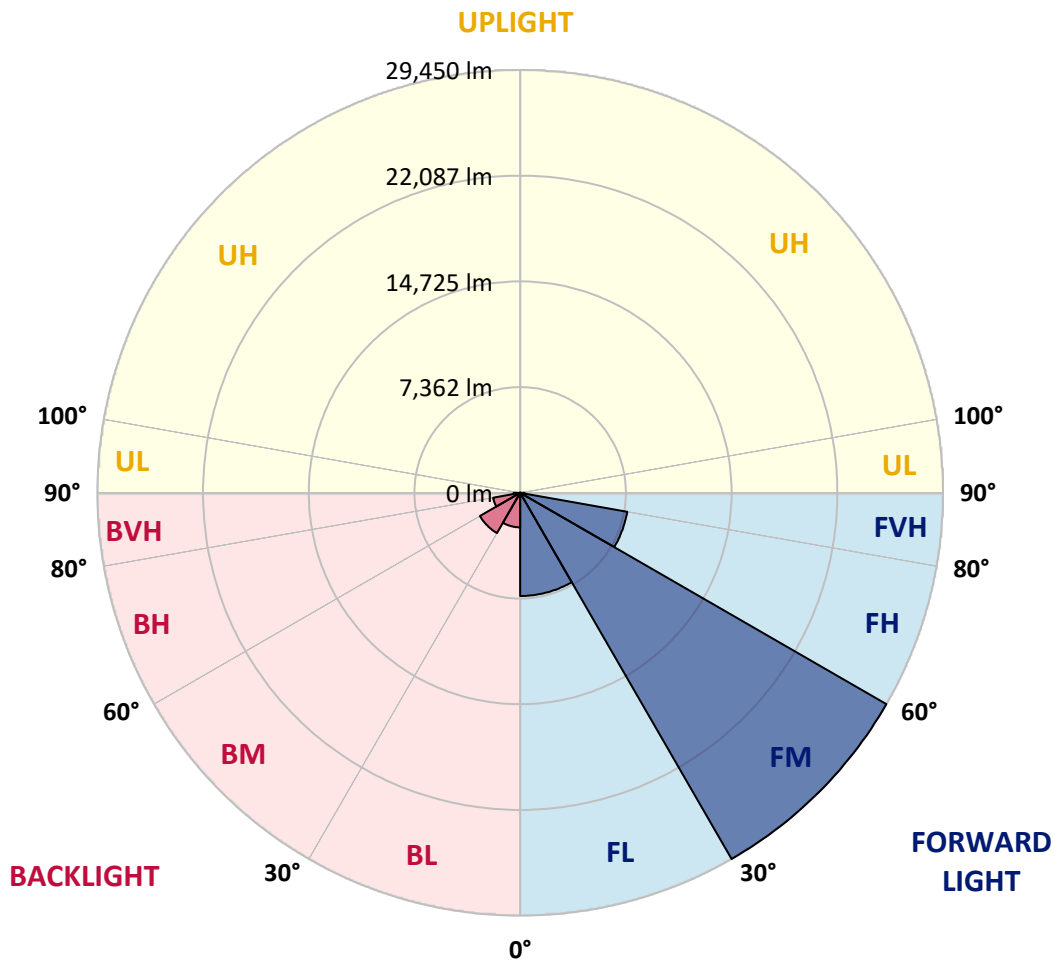
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7184.6	13.7			
FM	(30°-60°)	29449.6	56.1			
FH	(60°-80°)	7572.8	14.4			G4/12000
FVH	(80°-90°)	298.5	0.6			G3/500
BL	(0°-30°)	2407.0	4.6	B3/2500		
BM	(30°-60°)	3232.5	6.2	B3/5000		
BH	(60°-80°)	1910.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	458.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3
2.5°	15940.0	15811.3	15729.9	15658.0	15564.0	15363.8	15094.2	14923.6	14837.0	14542.8	14194.1
5°	17502.8	17389.0	17304.9	17208.6	17040.4	16726.4	16291.1	15944.9	15774.2	15185.8	14488.5
7.5°	17136.8	17183.8	17329.7	17584.4	17802.0	17760.0	17371.8	16931.6	16706.6	15888.1	14829.7
10°	14931.1	15012.7	15264.9	15860.8	16825.3	17814.4	18116.1	17812.0	17584.4	16582.9	15180.7
12.5°	14488.5	14485.9	14505.7	14663.9	15237.7	16630.0	18140.8	18447.5	18311.4	17245.7	15539.4
15°	14669.0	14673.9	14659.0	14725.7	14903.8	15455.2	17384.1	18692.2	18788.7	17913.3	15910.3
17.5°	15143.6	15131.3	15074.5	15074.5	15138.7	15353.9	16493.9	18464.8	18909.9	18504.2	16236.8
20°	15940.0	15883.1	15732.2	15593.8	15524.5	15640.7	16127.9	17940.5	18699.7	19021.2	16506.3
22.5°	16904.3	16859.8	16615.1	16318.3	16078.5	16076.0	16315.8	17483.1	18336.2	19508.3	16733.7
25°	18150.7	18079.0	17715.5	17240.7	16820.4	16659.5	16726.4	17460.7	18138.3	20037.5	16936.6
27.5°	19614.6	19483.6	19053.3	18368.4	17750.1	17426.1	17329.7	17863.9	18318.9	20692.7	17218.4
30°	21390.1	21239.3	20687.8	19795.1	18922.2	18390.6	18185.3	18578.4	18917.2	21491.5	17671.0
32.5°	23410.4	23192.8	22554.9	21570.6	20423.2	19612.2	19278.3	19523.1	19792.6	22453.5	18237.2
35°	26202.2	25942.6	25020.2	23662.7	22366.9	21251.7	20717.5	20895.6	21157.7	23887.6	19055.7
37.5°	28106.3	27990.1	27376.8	26100.9	24691.4	23407.9	22582.0	22685.8	22834.2	25680.4	20104.2
40°	28089.0	28136.1	28148.4	28160.7	27201.2	25972.2	25084.5	24975.8	24946.0	27648.9	21296.2
42.5°	26681.9	26875.0	27498.0	28761.7	29345.2	28781.4	27967.9	27653.9	27498.0	29968.4	22559.8
45°	24528.1	24632.1	25799.2	28267.1	30443.2	31563.3	30947.7	29958.6	29676.5	32100.0	23608.3
47.5°	23417.8	23531.6	24266.1	26956.5	30430.9	33811.2	34167.4	32283.0	31778.5	33954.7	24513.3
50°	20774.4	21011.7	21936.6	24676.5	29320.5	34844.8	37532.9	35052.6	34009.0	35759.8	25420.9
52.5°	15920.2	16286.1	17322.2	20927.6	26504.0	34333.0	40225.7	38410.6	36936.9	37629.3	26199.7
55°	10042.2	10314.2	11184.6	14780.3	21202.2	31669.7	41247.0	42043.4	40732.7	39399.8	26875.0
57.5°	5460.1	5581.2	5907.7	8160.5	13791.0	25781.8	39758.4	44110.6	43566.5	40903.3	27384.3
58°	4886.3	4967.9	5170.7	7072.4	12230.8	24172.0	39098.2	44118.0	43846.0	41123.4	27423.8
60°	3625.2	3583.2	3402.6	4035.6	6807.7	16699.1	35107.0	42352.4	43151.2	41393.0	27231.0
62.5°	3185.0	3083.6	2715.1	2673.1	3311.2	7693.1	26862.6	36279.0	38165.8	39854.8	26058.8
65°	2992.2	2883.3	2408.5	2255.3	2388.8	3254.3	15823.7	27208.8	29575.2	35191.0	23061.7
67.5°	2848.7	2707.9	2213.2	2003.0	2012.9	2151.4	6342.8	17136.8	19800.1	26719.0	17938.1
70°	2710.2	2556.9	2047.4	1805.1	1748.3	1701.3	2522.4	8578.4	10994.3	16877.1	11437.0
72.5°	2561.8	2411.1	1901.6	1649.4	1538.1	1382.3	1647.0	3509.0	4901.2	7984.9	5188.0
75°	2346.7	2210.6	1755.6	1510.9	1352.7	1144.9	1243.9	1832.5	2198.3	3180.1	2500.1
77.5°	2082.1	1970.8	1592.5	1397.1	1199.3	929.7	957.0	1271.0	1409.5	1820.1	1486.2
80°	1496.0	1535.7	1416.9	1256.2	1068.3	754.1	734.5	927.3	1001.5	1169.7	966.8
82.5°	1050.9	1073.3	1172.1	1026.3	882.9	593.5	541.6	652.8	697.4	769.0	521.7
85°	724.6	699.8	803.7	714.6	637.9	395.7	370.9	442.7	469.9	477.3	269.5
87.5°	435.1	435.1	465.0	383.2	343.7	205.3	200.3	252.2	269.5	257.2	148.4
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°	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3	13949.3
2.5°	13986.4	13810.8	13437.4	13138.3	12759.9	12366.6	12146.6	11911.6	11751.0	11634.8	11820.2
5°	14092.7	13734.1	12962.6	12230.8	11422.0	10581.3	9943.2	9349.7	8936.9	8679.8	8922.1
7.5°	14261.0	13709.5	12480.4	11229.3	9777.6	8378.0	7126.8	6342.8	5885.3	5660.3	5801.3
10°	14453.8	13669.9	11914.2	9871.7	7794.5	6031.3	5096.5	4780.1	4676.1	4634.0	4653.8
12.5°	14614.5	13585.7	11219.3	8229.6	5853.3	4762.8	4493.1	4485.7	4508.1	4512.9	4520.5
15°	14728.3	13462.2	10188.1	6518.5	4681.1	4339.8	4325.0	4369.5	4411.5	4428.9	4438.7
17.5°	14805.0	13207.5	9023.5	5153.3	4193.9	4134.5	4169.3	4226.0	4270.6	4282.9	4292.9
20°	14797.5	12834.1	7636.1	4297.9	3929.4	3929.4	3988.7	4033.2	4035.6	4020.9	4028.3
22.5°	14720.9	12322.2	6290.9	3842.8	3694.4	3736.5	3795.8	3753.7	3580.6	3466.9	3474.4
25°	14592.2	11711.5	5138.6	3553.4	3476.8	3551.0	3533.8	3217.2	2969.8	2858.5	2858.5
27.5°	14478.5	10989.3	4253.3	3301.2	3259.2	3350.7	3044.0	2757.2	2653.4	2601.4	2584.2
30°	14396.9	10210.3	3662.3	3058.9	3054.0	2987.3	2640.9	2561.8	2544.5	2502.5	2487.6
32.5°	14416.7	9421.6	3283.9	2846.2	2863.5	2556.9	2448.2	2465.4	2450.5	2406.1	2386.3
35°	14579.9	8672.2	3036.6	2653.4	2601.4	2309.6	2334.3	2366.6	2361.6	2299.8	2280.0
37.5°	14871.7	7962.5	2873.5	2492.6	2270.0	2185.9	2225.6	2275.0	2262.7	2220.6	2205.8
40°	15178.3	7294.9	2739.9	2366.6	2074.7	2101.9	2136.6	2163.7	2176.1	2188.5	2178.6
42.5°	15477.5	6597.5	2576.7	2237.9	1993.1	2022.9	2037.6	2064.8	2131.6	2178.6	2176.1
45°	15655.7	5942.3	2408.5	2055.0	1928.8	1946.1	1936.2	1990.6	2072.2	2148.8	2151.4
47.5°	15853.4	5432.8	2275.0	1886.8	1866.9	1879.3	1849.7	1904.0	1978.2	2072.2	2082.1
50°	16093.2	5128.7	2168.7	1753.2	1783.0	1783.0	1775.5	1824.9	1928.8	2037.6	2057.4
52.5°	16365.3	5069.3	2079.7	1656.8	1698.9	1696.4	1703.7	1777.9	1891.7	1998.1	2015.3
55°	16696.6	5230.0	1983.2	1585.1	1617.3	1627.1	1651.9	1736.0	1832.5	1953.5	1961.0
57.5°	17082.3	5556.5	1906.6	1528.2	1543.1	1575.2	1614.8	1691.4	1795.4	1928.8	1936.2
58°	17146.7	5625.7	1894.2	1523.3	1528.2	1565.2	1609.9	1684.1	1787.8	1933.8	1941.1
60°	17149.2	5855.7	1866.9	1501.0	1471.3	1533.1	1582.6	1656.8	1775.5	1951.1	1968.4
62.5°	16540.9	5853.3	1847.3	1468.9	1412.0	1488.6	1545.5	1632.1	1763.2	1993.1	2027.7
65°	14565.1	5319.0	1753.2	1419.4	1365.1	1449.1	1513.4	1614.8	1797.8	2176.1	2198.3
67.5°	11392.3	4359.7	1577.7	1350.2	1303.3	1409.5	1493.6	1612.3	1834.9	2218.2	2232.9
70°	7532.3	3261.7	1384.7	1271.0	1238.9	1362.5	1503.6	1696.4	1792.7	2129.2	2089.5
72.5°	3909.6	2289.9	1229.1	1172.1	1164.7	1320.5	1647.0	1686.5	1750.7	2003.0	1953.5
75°	2052.4	1590.0	1093.0	1063.4	1075.7	1310.5	1943.7	1641.9	1696.4	1916.4	2010.4
77.5°	1256.2	1283.4	976.7	964.4	989.2	1281.0	1941.1	1585.1	1617.3	1763.2	1866.9
80°	840.8	1041.0	887.7	890.2	907.6	1172.1	1743.3	1496.0	1520.8	1666.6	1773.1
82.5°	531.6	615.8	806.1	848.2	825.9	966.8	1481.2	1362.5	1397.1	1906.6	2015.3
85°	269.5	385.7	699.8	816.0	744.3	677.5	1201.8	1194.3	1211.8	1374.9	1436.7
87.5°	123.6	212.7	546.4	712.1	561.4	422.8	873.0	885.3	954.4	976.7	976.7
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)