

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: P192166

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37823 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

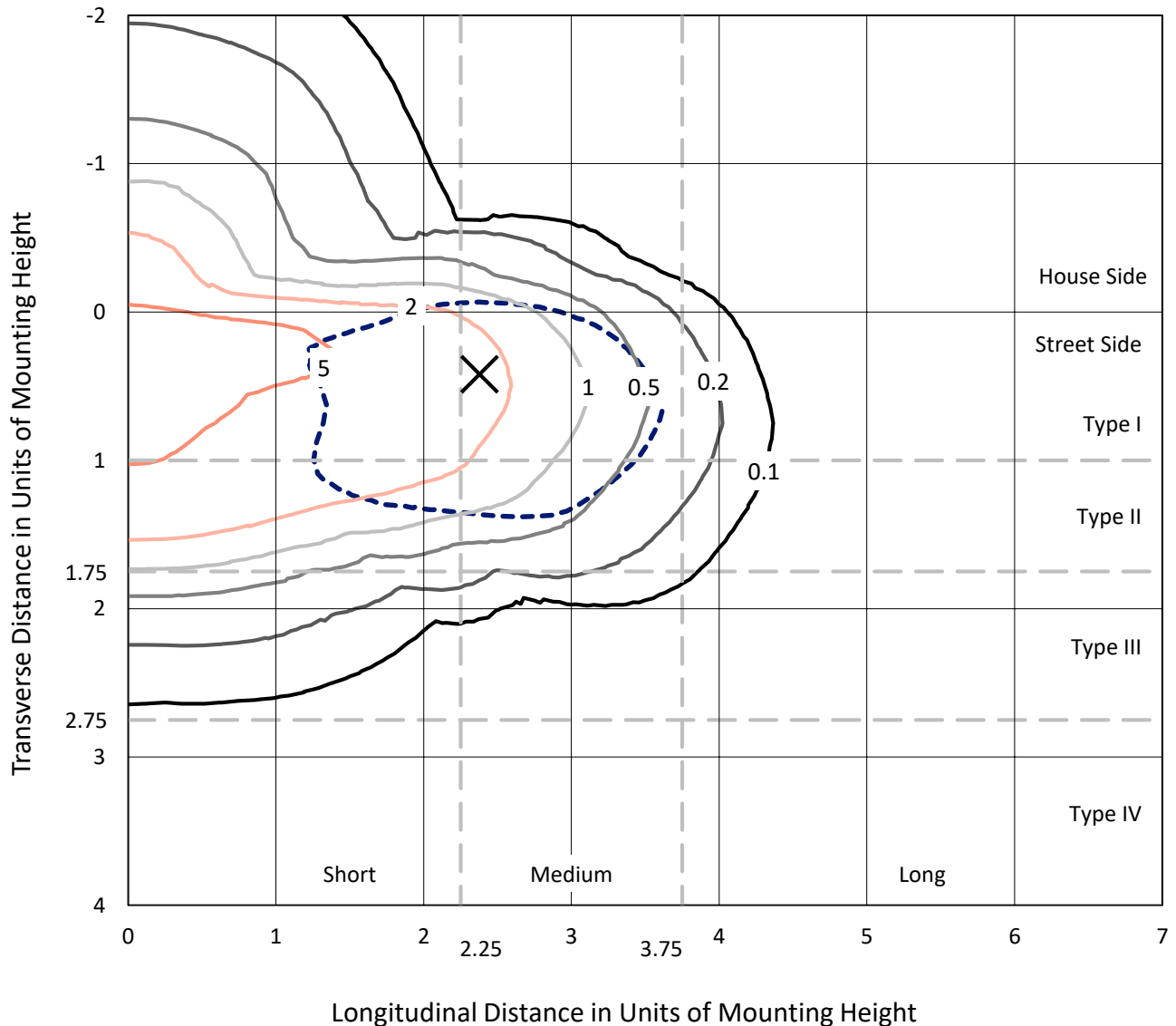
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

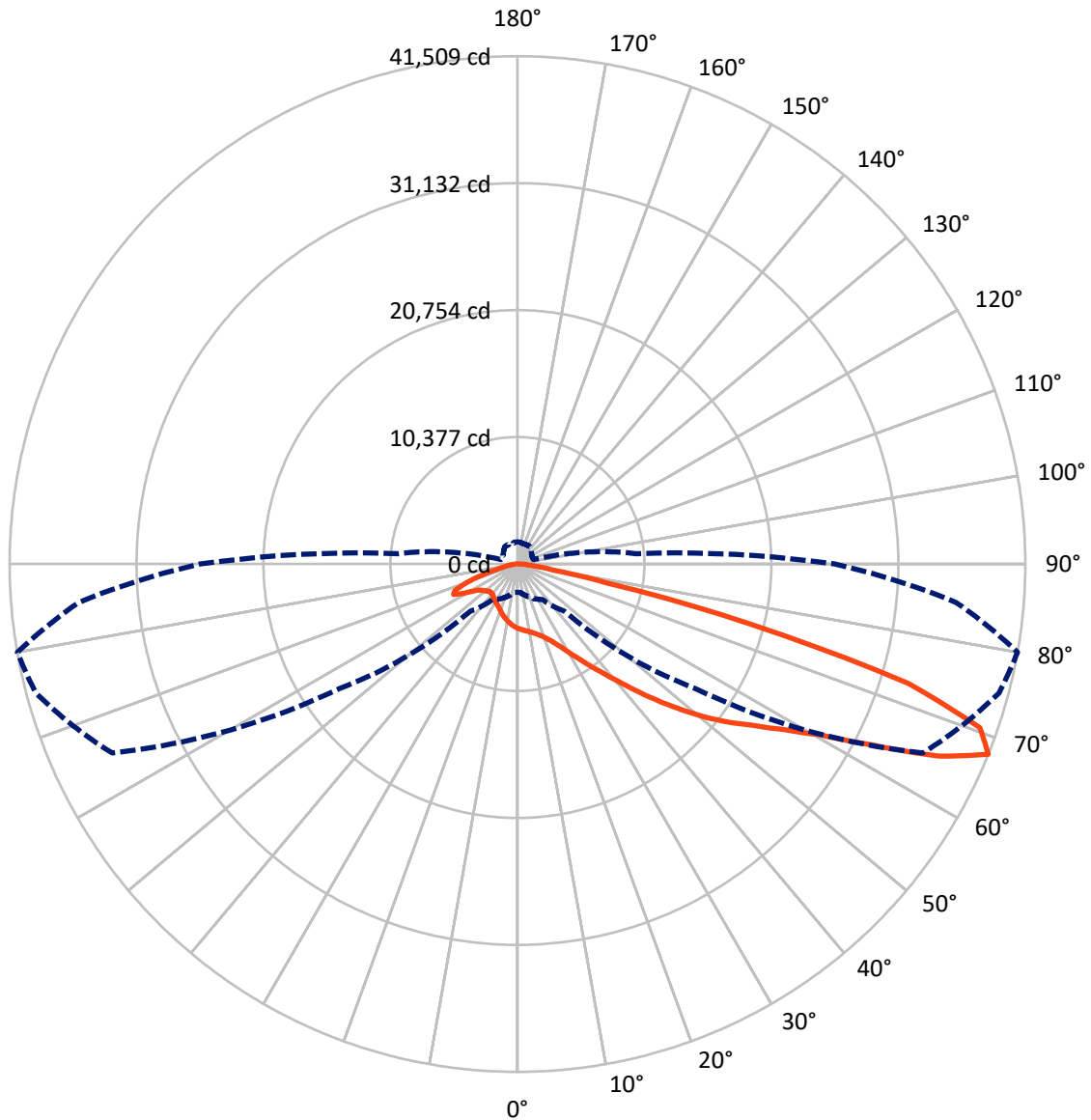


Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6965.6	0.0	6965.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	30857.4	0.0	30857.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	37823.0	0.0	37823.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.3
10°-20°	1396.3	3.7
20°-30°	2311.3	6.1
30°-40°	3780.6	10.0
40°-50°	6104.2	16.1
50°-60°	8812.7	23.3
60°-70°	9725.3	25.7
70°-80°	4482.8	11.9
80°-90°	725.1	1.9
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°	37823.0	100.0
0°-180°	37823.0	100.0



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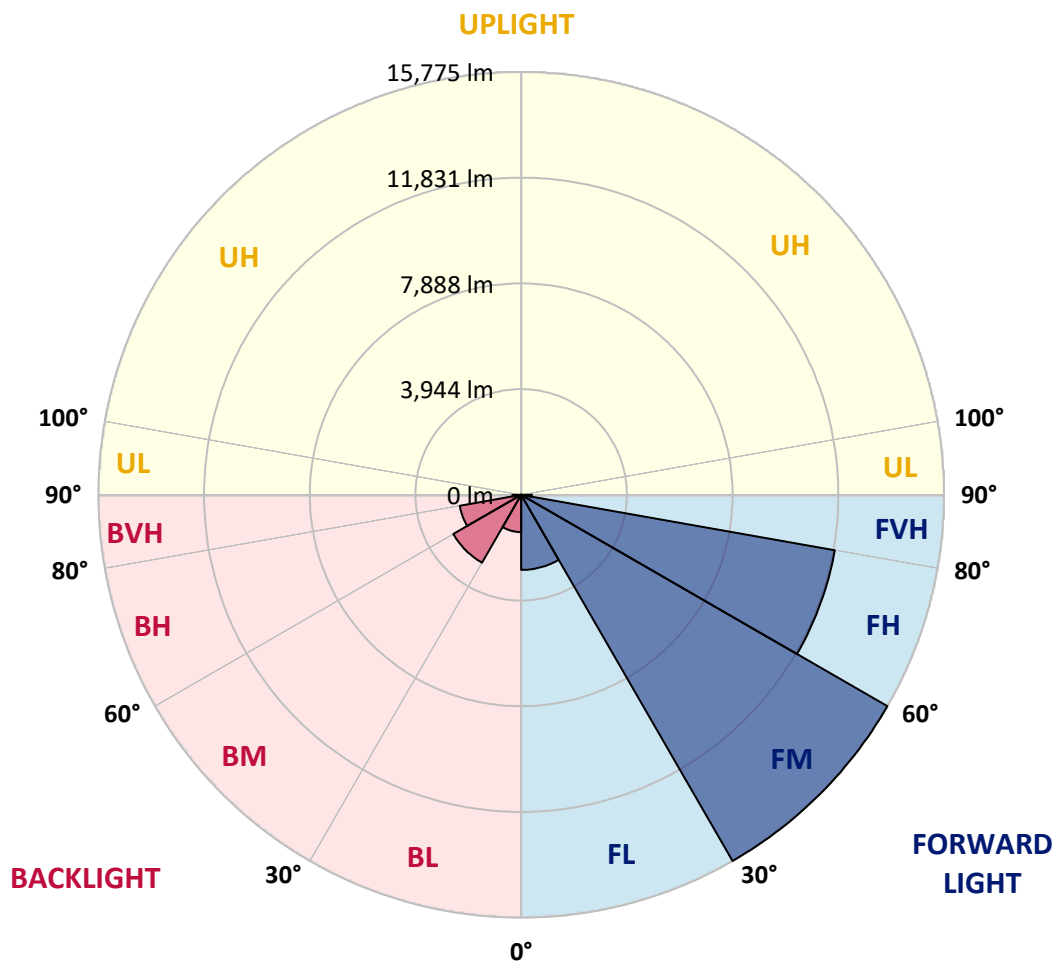
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.6	7.4			
FM (30°-60°)	15775.0	41.7			
FH (60°-80°)	11881.2	31.4			G4/12000
FVH (80°-90°)	398.6	1.1			G3/500
BL (0°-30°)	1389.7	3.7	B3/2500		
BM (30°-60°)	2922.5	7.7	B3/5000		
BH (60°-80°)	2326.9	6.2	B3/2500		G3/2500
BVH (80°-90°)	326.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7
2.5°	5748.2	5714.6	5720.2	5710.9	5683.0	5634.6	5582.4	5487.5	5388.8	5336.6	5295.7
5°	6228.6	6219.3	6206.2	6176.4	6105.7	6005.1	5880.4	5712.8	5532.2	5437.2	5346.0
7.5°	6587.9	6582.4	6565.6	6547.0	6478.1	6357.1	6169.0	5930.6	5668.1	5537.7	5396.2
10°	6617.7	6627.0	6640.1	6690.4	6699.7	6634.5	6442.7	6154.1	5809.6	5642.0	5461.4
12.5°	6364.5	6385.0	6435.3	6563.7	6699.7	6779.7	6681.0	6388.7	5975.3	5772.4	5543.3
15°	6029.3	6040.5	6101.9	6278.8	6522.8	6770.4	6863.5	6647.5	6189.5	5940.0	5666.2
17.5°	5886.0	5891.5	5934.4	6051.7	6278.8	6632.6	6965.9	6928.7	6452.0	6148.5	5817.1
20°	5813.3	5826.4	5887.8	6003.3	6146.6	6455.7	6980.8	7232.2	6764.8	6409.2	6007.0
22.5°	6020.0	6014.4	6036.8	6094.5	6215.5	6401.7	6969.7	7545.0	7163.3	6744.4	6254.6
25°	6502.3	6522.8	6483.7	6418.5	6457.6	6587.9	7029.3	7883.9	7662.3	7174.5	6578.6
27.5°	7189.4	7168.9	7111.2	6958.5	6878.4	6934.3	7226.6	8248.9	8282.4	7740.6	7006.9
30°	7874.6	7857.9	7802.0	7615.8	7451.9	7405.4	7610.2	8667.9	9021.6	8420.2	7532.0
32.5°	8585.9	8567.3	8515.2	8329.0	8131.6	8023.6	8155.8	9152.0	9893.1	9232.1	8150.2
35°	9463.0	9427.6	9317.7	9058.9	8865.2	8781.4	8842.9	9760.9	10898.6	10192.9	8900.6
37.5°	10287.8	10341.8	10230.1	9872.6	9621.2	9591.4	9660.3	10503.8	11982.3	11267.3	9762.7
40°	11116.5	11125.8	11025.2	10732.9	10474.1	10425.6	10598.8	11405.1	13261.5	12552.1	10811.1
42.5°	11973.0	11991.6	11822.2	11552.2	11362.3	11371.6	11568.9	12460.9	14728.8	14066.0	12017.7
45°	12987.8	13015.8	12829.5	12475.8	12302.6	12650.8	12568.9	13645.1	16337.7	15786.5	13403.1
47.5°	14049.2	14092.0	13950.5	13619.1	13403.1	13881.6	13568.8	14957.9	18069.4	17631.8	14924.4
50°	14628.3	14689.7	14827.5	14803.3	14756.8	14676.7	14684.2	16365.6	19855.1	19553.4	16488.5
52.5°	14317.3	14315.5	14818.2	15429.0	16080.7	16129.1	16043.5	17849.6	21523.5	21432.2	17961.4
55°	12894.7	12991.5	13753.1	14935.5	16715.7	17827.3	18080.5	19549.7	23162.1	23268.2	19456.6
57.5°	10526.2	10606.3	11634.1	13282.0	15859.1	18836.5	20977.9	22020.6	24994.3	25489.6	21447.1
60°	7139.1	7235.9	8325.2	10304.6	13553.9	18274.2	23735.6	26430.0	27187.8	28314.4	24240.2
62.5°	4195.2	4282.7	5170.9	6500.4	9543.0	15661.7	24945.9	32703.2	30671.7	32576.6	28500.6
65°	2888.0	2947.6	3379.6	4046.2	5483.7	10548.5	23445.1	37034.4	36032.6	37857.4	33440.6
67.5°	2323.8	2316.4	2659.0	3113.4	3530.5	5439.1	17728.6	36544.7	40747.3	41508.9	36004.7
70°	1914.2	1906.7	2139.5	2515.6	2821.0	3063.1	9656.6	30839.3	39786.5	40095.6	33643.6
72.5°	1601.4	1608.8	1757.8	2037.1	2314.5	2307.1	4243.6	21694.8	31299.3	33436.9	26819.2
75°	1351.9	1355.6	1454.3	1651.6	1878.8	1858.3	2301.5	11753.3	18194.1	19681.9	14866.6
77.5°	1150.7	1154.5	1217.8	1327.6	1489.6	1482.2	1679.6	5077.8	7589.7	7496.6	5085.3
80°	1026.0	1026.0	1055.8	1076.3	1165.6	1132.1	1245.7	2439.3	3208.3	2962.5	2029.6
82.5°	804.4	808.1	990.6	983.2	918.0	875.2	875.2	1437.5	1700.1	1571.6	1188.0
85°	452.5	450.6	638.7	770.9	808.1	616.3	610.8	804.4	925.4	815.6	575.4
87.5°	193.7	197.4	296.1	342.6	458.1	383.6	378.0	415.2	471.1	407.8	266.3
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°	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7	5254.7
2.5°	5256.6	5208.2	5102.0	4969.8	4850.6	4772.4	4701.7	4599.3	4604.9	4534.1	4482.0
5°	5252.9	5152.3	4906.5	4614.2	4333.0	4130.0	3977.3	3839.6	3806.0	3740.9	3701.8
7.5°	5256.6	5092.7	4679.3	4212.0	3863.8	3606.8	3476.5	3403.8	3387.1	3364.7	3366.6
10°	5269.6	5038.7	4429.8	3835.8	3470.9	3301.4	3269.8	3292.1	3318.2	3325.6	3327.5
12.5°	5299.4	4990.3	4156.1	3500.7	3225.1	3172.9	3226.9	3303.3	3353.6	3377.8	3375.9
15°	5366.4	4953.1	3893.6	3238.1	3089.1	3117.1	3217.6	3325.6	3398.2	3431.8	3433.6
17.5°	5439.1	4899.1	3623.6	3037.0	2988.6	3059.4	3184.1	3310.7	3400.1	3437.4	3444.8
20°	5534.0	4832.0	3340.5	2886.2	2893.6	2973.7	3091.0	3217.6	3316.3	3348.0	3362.9
22.5°	5658.8	4759.4	3092.9	2763.3	2785.6	2847.1	2938.3	3048.2	3133.8	3148.7	3161.8
25°	5826.4	4681.2	2895.5	2651.6	2660.9	2696.3	2757.7	2822.9	2882.5	2865.7	2878.7
27.5°	6051.7	4614.2	2748.4	2549.2	2532.4	2539.8	2571.5	2592.0	2623.6	2577.1	2582.7
30°	6316.1	4541.5	2634.8	2459.8	2413.2	2400.2	2407.6	2418.8	2443.0	2379.7	2370.4
32.5°	6623.3	4454.0	2528.7	2381.6	2316.4	2290.3	2294.0	2323.8	2416.9	2377.8	2357.4
35°	6980.8	4355.3	2416.9	2295.9	2251.2	2214.0	2210.3	2303.4	2580.8	2556.6	2538.0
37.5°	7399.8	4256.7	2305.2	2199.1	2202.8	2161.8	2148.8	2254.9	2612.5	2517.5	2504.5
40°	7932.3	4204.5	2210.3	2096.7	2143.2	2137.6	2111.6	2165.6	2403.9	2230.7	2208.4
42.5°	8591.5	4212.0	2139.5	1986.8	2072.5	2132.1	2091.1	2092.9	2178.6	2048.3	2027.8
45°	9405.2	4299.5	2089.2	1899.3	1992.4	2126.5	2083.6	2053.8	2061.3	1992.4	1981.2
47.5°	10354.9	4480.1	2053.8	1826.7	1916.1	2106.0	2081.8	2042.7	2025.9	1988.7	1979.4
50°	11410.7	4742.7	2027.8	1757.8	1847.2	2072.5	2083.6	2031.5	2012.9	1998.0	1992.4
52.5°	12447.8	5042.4	1988.7	1698.2	1793.2	2031.5	2089.2	2020.3	1999.8	1988.7	1983.1
55°	13604.2	5416.7	1929.1	1647.9	1748.5	1979.4	2089.2	2003.6	1981.2	1983.1	1981.2
57.5°	15166.4	6021.9	1858.3	1605.1	1694.5	1916.1	2053.8	1984.9	1957.0	1958.9	1960.7
60°	17607.6	7088.8	1772.7	1562.3	1627.4	1841.6	2005.4	1944.0	1916.1	1923.5	1925.4
62.5°	21197.6	8654.8	1661.0	1499.0	1556.7	1761.5	1938.4	1891.8	1863.9	1882.5	1882.5
65°	24929.2	10036.5	1523.2	1418.9	1482.2	1674.0	1854.6	1826.7	1798.7	1841.6	1839.7
67.5°	25932.8	9727.4	1385.4	1331.4	1407.7	1577.2	1754.1	1739.2	1724.3	1798.7	1795.0
70°	23037.3	7809.5	1258.7	1242.0	1325.8	1472.9	1646.1	1646.1	1636.7	1692.6	1679.6
72.5°	17551.7	5537.7	1137.7	1147.0	1232.7	1359.3	1528.7	1541.8	1526.9	1554.8	1543.6
75°	9395.9	3169.2	1016.7	1042.7	1117.2	1243.9	1398.4	1411.4	1402.1	1400.3	1405.9
77.5°	3122.7	1549.2	890.1	931.0	996.2	1124.7	1262.5	1283.0	1260.6	1256.9	1255.0
80°	1391.0	973.9	750.4	804.4	862.1	988.8	1119.1	1135.9	1111.6	1145.2	1102.3
82.5°	893.8	640.5	601.4	661.0	716.9	852.8	975.7	979.4	957.1	1111.6	947.8
85°	433.9	396.6	452.5	506.5	554.9	670.3	808.1	810.0	754.1	687.1	662.9
87.5°	216.0	230.9	301.7	350.1	374.3	459.9	588.4	577.2	553.0	502.8	463.7
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)