

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: P191356

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191356
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-T2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31551.9 lumens
Efficiency: N/A
Efficacy: 122.8 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

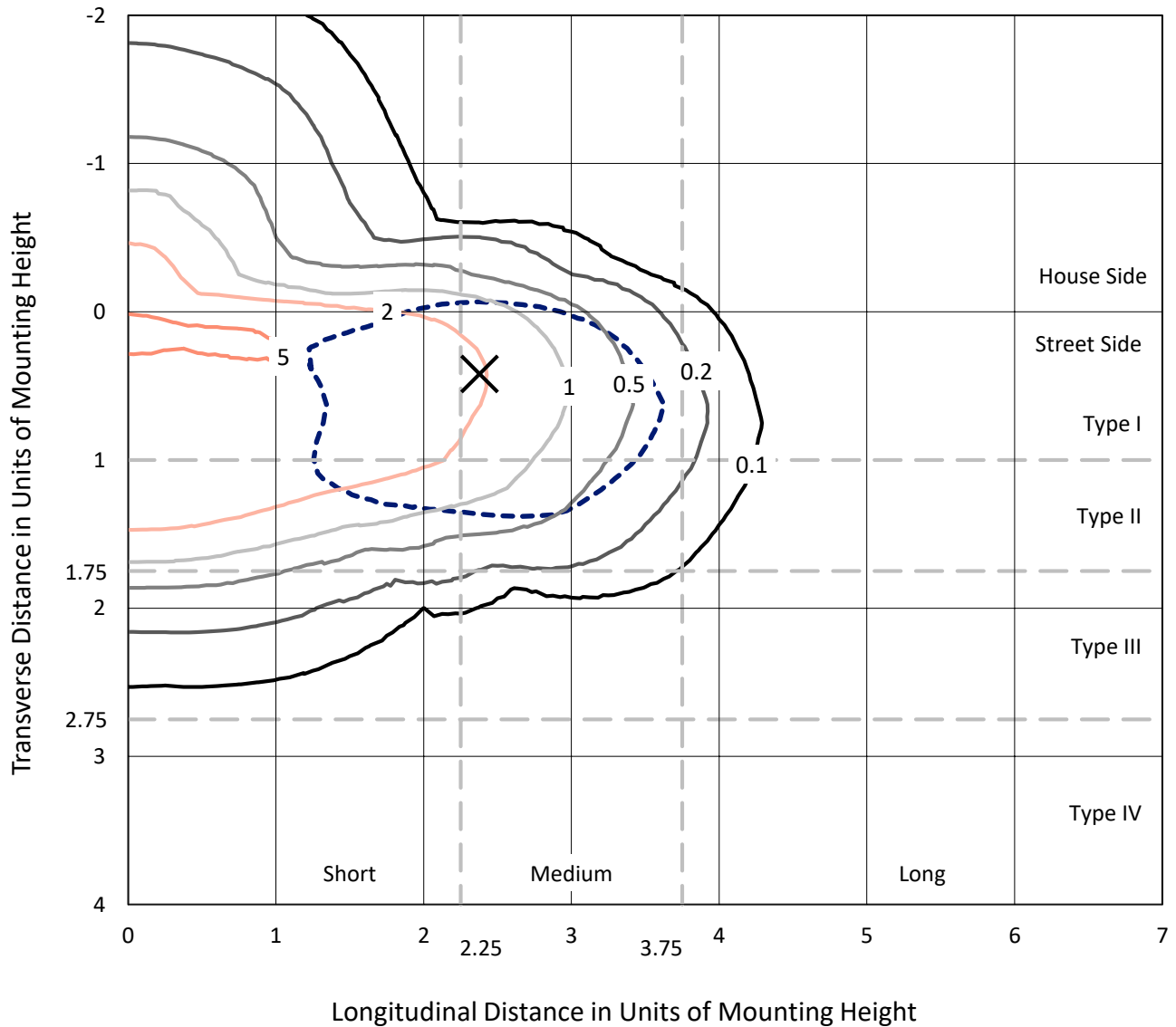
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

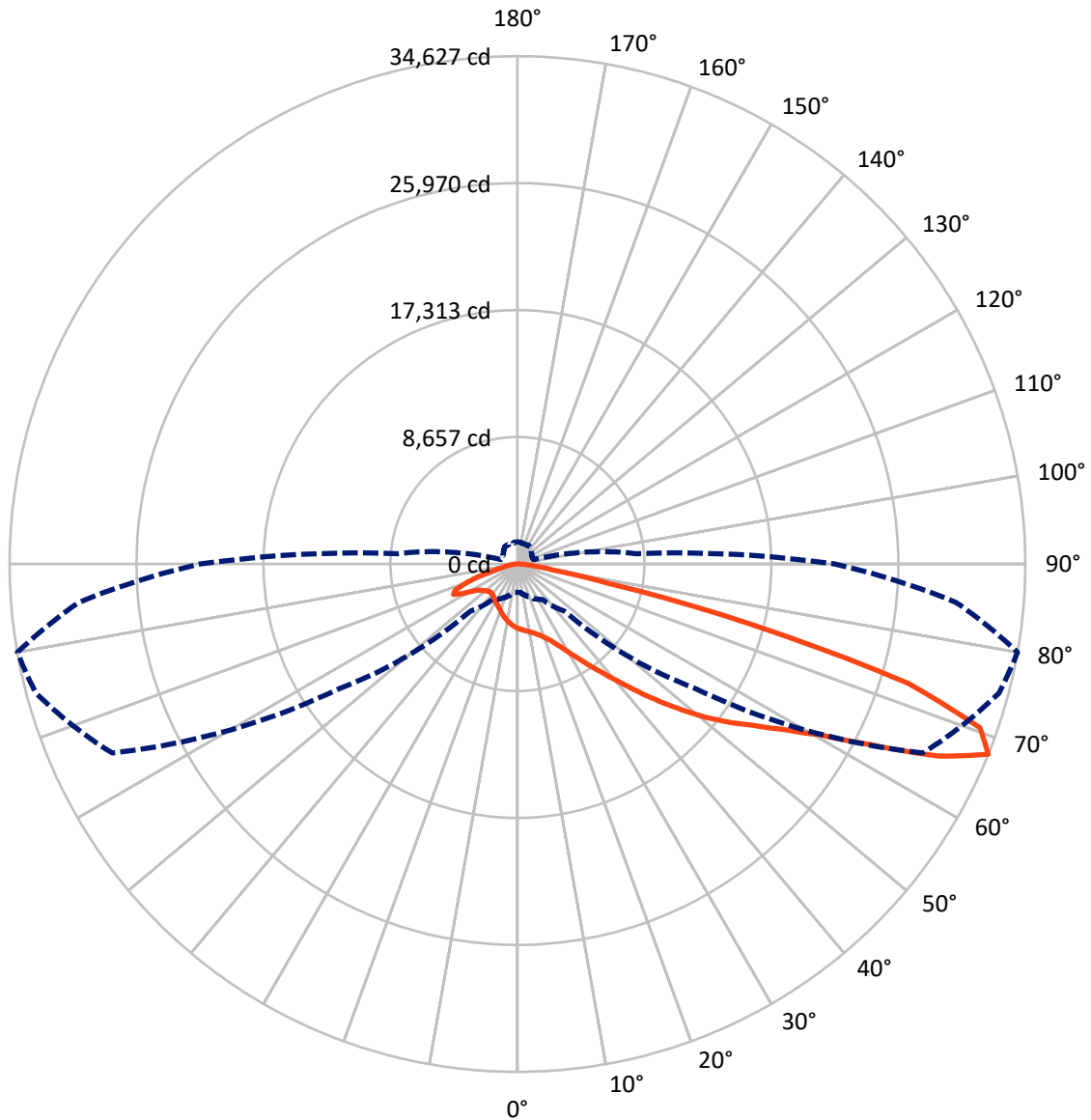
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	5810.7	0.0	5810.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	25741.2	0.0	25741.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	31551.9	0.0	31551.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	1.3
10°-20°	1164.8	3.7
20°-30°	1928.1	6.1
30°-40°	3153.8	10.0
40°-50°	5092.1	16.1
50°-60°	7351.5	23.3
60°-70°	8112.9	25.7
70°-80°	3739.5	11.9
80°-90°	604.8	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°	31551.9	100.0
0°-180°	31551.9	100.0



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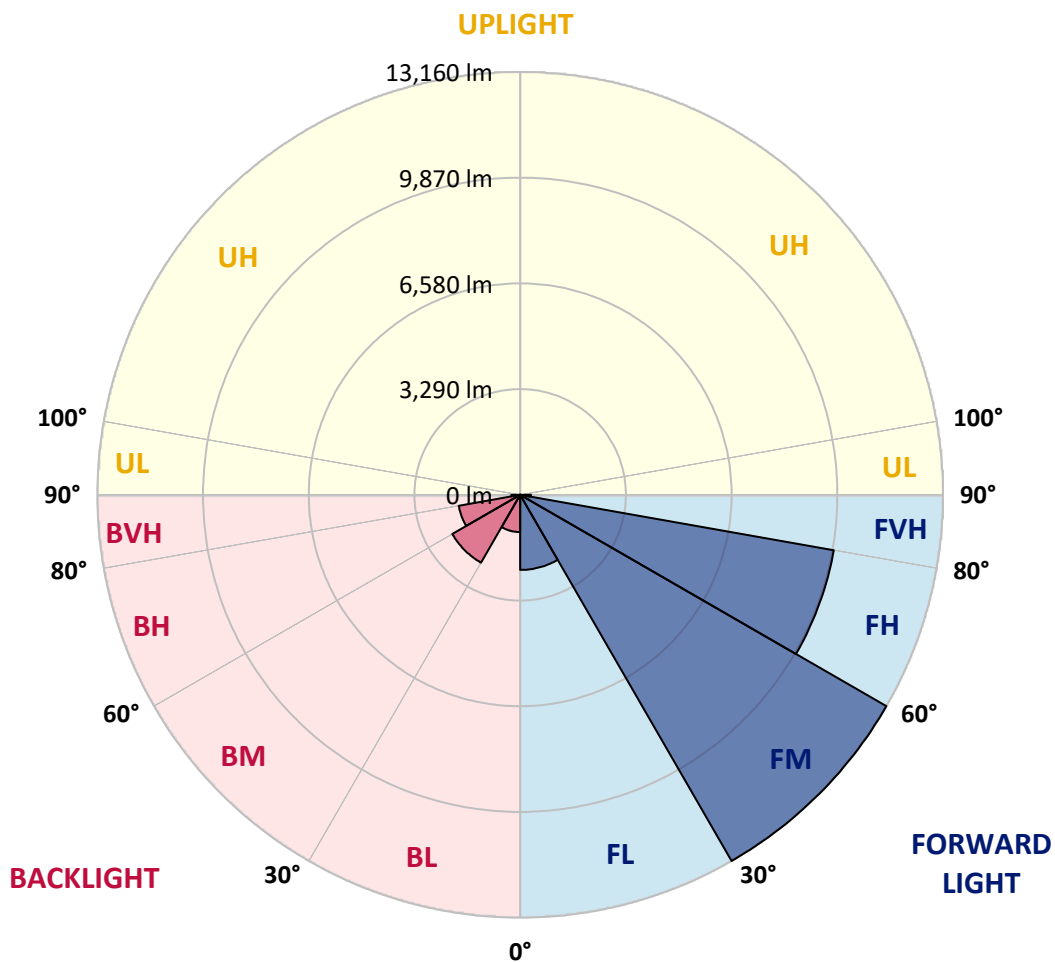
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2337.9	7.4			
FM	(30°-60°)	13159.5	41.7			
FH	(60°-80°)	9911.3	31.4			G4/12000
FVH	(80°-90°)	332.5	1.1			G3/500
BL	(0°-30°)	1159.3	3.7	B3/2500		
BM	(30°-60°)	2437.9	7.7	B2/2500		
BH	(60°-80°)	1941.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	272.3	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°	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4
2.5°	4795.1	4767.2	4771.8	4764.1	4740.8	4700.4	4656.9	4577.6	4495.4	4451.8	4417.6
5°	5195.9	5188.1	5177.3	5152.4	5093.4	5009.5	4905.4	4765.6	4614.9	4535.7	4459.6
7.5°	5495.7	5491.0	5477.0	5461.4	5404.0	5303.1	5146.2	4947.3	4728.3	4619.5	4501.5
10°	5520.6	5528.2	5539.2	5581.1	5588.9	5534.5	5374.5	5133.8	4846.3	4706.6	4555.9
12.5°	5309.2	5326.3	5368.2	5475.4	5588.9	5655.7	5573.3	5329.5	4984.6	4815.3	4624.2
15°	5029.6	5039.0	5090.2	5237.8	5441.3	5647.9	5725.6	5545.3	5163.2	4955.1	4726.7
17.5°	4910.1	4914.7	4950.5	5048.3	5237.8	5532.9	5811.0	5779.9	5382.3	5129.1	4852.6
20°	4849.5	4860.3	4911.6	5008.0	5127.5	5385.3	5823.5	6033.1	5643.2	5346.6	5011.0
22.5°	5021.9	5017.3	5035.9	5084.1	5185.0	5340.3	5814.0	6294.0	5975.7	5626.1	5217.6
25°	5424.2	5441.3	5408.6	5354.3	5387.0	5495.7	5863.8	6576.8	6391.9	5985.0	5487.9
27.5°	5997.4	5980.3	5932.1	5804.7	5737.9	5784.6	6028.5	6881.2	6909.2	6457.2	5845.1
30°	6569.0	6555.1	6508.4	6353.1	6216.4	6177.6	6348.4	7230.7	7525.8	7024.1	6283.2
32.5°	7162.4	7146.8	7103.4	6948.0	6783.4	6693.3	6803.5	7634.6	8252.8	7701.4	6798.9
35°	7894.0	7864.4	7772.8	7556.9	7395.3	7325.5	7376.7	8142.5	9091.6	8502.9	7424.9
37.5°	8582.1	8627.2	8534.0	8235.7	8026.0	8001.2	8058.6	8762.3	9995.7	9399.2	8144.0
40°	9273.4	9281.1	9197.2	8953.4	8737.4	8697.0	8841.5	9514.1	11062.8	10470.9	9018.5
42.5°	9987.9	10003.4	9862.1	9636.8	9478.4	9486.1	9650.8	10394.8	12286.8	11733.8	10025.1
45°	10834.4	10857.7	10702.4	10407.3	10262.8	10553.3	10484.9	11382.8	13628.9	13169.1	11180.9
47.5°	11719.8	11755.5	11637.5	11361.0	11180.9	11580.0	11319.1	12477.9	15073.5	14708.4	12449.9
50°	12202.9	12254.1	12369.1	12349.0	12310.1	12243.3	12249.5	13652.2	16563.1	16311.5	13754.7
52.5°	11943.5	11941.9	12361.3	12870.9	13414.5	13454.9	13383.5	14890.2	17954.8	17878.7	14983.4
55°	10756.7	10837.6	11472.8	12459.2	13944.1	14871.6	15082.8	16308.3	19321.8	19410.3	16230.6
57.5°	8780.9	8847.7	9705.1	11079.9	13229.6	15713.4	17499.7	18369.6	20850.3	21263.5	17891.2
60°	5955.4	6036.2	6944.9	8596.1	11306.7	15244.3	19800.2	22047.9	22680.0	23619.8	20221.2
62.5°	3499.6	3572.7	4313.6	5422.7	7960.8	13065.0	20809.9	27281.0	25586.4	27175.4	23775.1
65°	2409.3	2458.9	2819.3	3375.3	4574.5	8799.5	19557.9	30894.0	30058.4	31580.6	27896.1
67.5°	1938.6	1932.4	2218.2	2597.2	2945.1	4537.3	14789.2	30485.5	33991.3	34626.7	30035.1
70°	1596.8	1590.6	1784.7	2098.6	2353.3	2555.2	8055.5	25726.1	33189.8	33447.7	28065.5
72.5°	1335.9	1342.1	1466.3	1699.3	1930.8	1924.6	3540.0	18097.7	26109.8	27893.0	22372.5
75°	1127.7	1130.8	1213.1	1377.8	1567.3	1550.2	1919.9	9804.6	15177.5	16418.7	12401.7
77.5°	959.9	963.1	1015.9	1107.5	1242.7	1236.4	1401.1	4235.9	6331.3	6253.7	4242.1
80°	855.9	855.9	880.8	897.8	972.4	944.4	1039.2	2034.9	2676.3	2471.3	1693.1
82.5°	671.1	674.1	826.3	820.2	765.8	730.1	730.1	1199.2	1418.2	1311.0	991.0
85°	377.5	375.9	532.8	643.0	674.1	514.1	509.5	671.1	772.0	680.4	480.0
87.5°	161.5	164.7	246.9	285.8	382.1	320.0	315.3	346.4	393.0	340.1	222.1
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°	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4	4383.4
2.5°	4385.0	4344.7	4256.1	4145.8	4046.4	3981.1	3922.1	3836.7	3841.4	3782.4	3738.9
5°	4381.9	4298.0	4093.0	3849.2	3614.6	3445.3	3317.9	3203.0	3175.0	3120.6	3088.0
7.5°	4385.0	4248.3	3903.5	3513.6	3223.1	3008.8	2900.1	2839.5	2825.5	2806.9	2808.4
10°	4395.9	4203.3	3695.3	3199.9	2895.4	2754.1	2727.6	2746.3	2768.0	2774.2	2775.8
12.5°	4420.8	4162.9	3467.0	2920.2	2690.4	2646.9	2691.9	2755.6	2797.6	2817.7	2816.2
15°	4476.6	4131.8	3248.0	2701.2	2576.9	2600.2	2684.1	2774.2	2834.8	2862.7	2864.4
17.5°	4537.3	4086.8	3022.7	2533.4	2493.0	2552.1	2656.2	2761.8	2836.3	2867.4	2873.7
20°	4616.5	4030.8	2786.6	2407.6	2413.9	2480.7	2578.6	2684.1	2766.5	2792.9	2805.3
22.5°	4720.5	3970.3	2580.1	2305.1	2323.7	2375.0	2451.1	2542.7	2614.3	2626.6	2637.6
25°	4860.3	3905.0	2415.4	2211.9	2219.7	2249.2	2300.5	2354.8	2404.5	2390.5	2401.5
27.5°	5048.3	3849.2	2292.7	2126.5	2112.5	2118.7	2145.1	2162.2	2188.6	2149.8	2154.4
30°	5268.9	3788.6	2197.9	2051.9	2013.1	2002.2	2008.5	2017.8	2037.9	1985.1	1977.4
32.5°	5525.2	3715.6	2109.4	1986.7	1932.4	1910.6	1913.7	1938.6	2016.2	1983.6	1966.5
35°	5823.5	3633.2	2016.2	1915.3	1877.9	1846.9	1843.8	1921.5	2152.9	2132.8	2117.2
37.5°	6172.9	3550.9	1923.0	1834.5	1837.6	1803.4	1792.5	1881.1	2179.3	2100.1	2089.2
40°	6617.2	3507.4	1843.8	1749.0	1787.9	1783.2	1761.4	1806.5	2005.3	1860.8	1842.2
42.5°	7167.0	3513.6	1784.7	1657.4	1728.9	1778.6	1744.3	1746.0	1817.4	1708.6	1691.6
45°	7845.8	3586.7	1742.8	1584.3	1662.1	1773.9	1738.2	1713.3	1719.5	1662.1	1652.8
47.5°	8638.0	3737.2	1713.3	1523.8	1598.4	1756.8	1736.7	1704.0	1690.0	1658.9	1651.1
50°	9518.8	3956.3	1691.6	1466.3	1540.9	1728.9	1738.2	1694.7	1679.2	1666.7	1662.1
52.5°	10384.0	4206.4	1658.9	1416.6	1495.9	1694.7	1742.8	1685.3	1668.2	1658.9	1654.3
55°	11348.6	4518.6	1609.2	1374.6	1458.5	1651.1	1742.8	1671.4	1652.8	1654.3	1652.8
57.5°	12651.9	5023.4	1550.2	1338.9	1413.5	1598.4	1713.3	1655.9	1632.5	1634.1	1635.7
60°	14688.2	5913.5	1478.8	1303.2	1357.6	1536.3	1672.9	1621.7	1598.4	1604.6	1606.1
62.5°	17683.0	7219.9	1385.6	1250.5	1298.5	1469.5	1617.0	1578.2	1554.9	1570.4	1570.4
65°	20795.9	8372.4	1270.6	1183.7	1236.4	1396.4	1547.1	1523.8	1500.5	1536.3	1534.7
67.5°	21633.2	8114.6	1155.6	1110.6	1174.3	1315.6	1463.2	1450.9	1438.4	1500.5	1497.4
70°	19217.7	6514.7	1050.1	1036.0	1106.0	1228.7	1373.1	1373.1	1365.3	1412.0	1401.1
72.5°	14641.6	4619.5	949.1	956.9	1028.3	1133.9	1275.3	1286.2	1273.7	1297.0	1287.7
75°	7838.1	2643.7	848.1	869.8	932.0	1037.6	1166.6	1177.4	1169.6	1168.1	1172.7
77.5°	2604.9	1292.4	742.5	776.6	831.0	938.3	1053.1	1070.2	1051.6	1048.5	1047.0
80°	1160.3	812.4	625.9	671.1	719.2	824.8	933.5	947.6	927.3	955.3	919.5
82.5°	745.6	534.4	501.8	551.5	598.0	711.5	814.0	817.0	798.4	927.3	790.6
85°	361.9	330.8	377.5	422.5	462.9	559.2	674.1	675.7	629.1	573.2	553.0
87.5°	180.1	192.6	251.6	292.1	312.2	383.7	490.8	481.5	461.4	419.4	386.8
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)