

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: P383125

Luminaire Tested: **GLEON-SA4C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27175.1 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

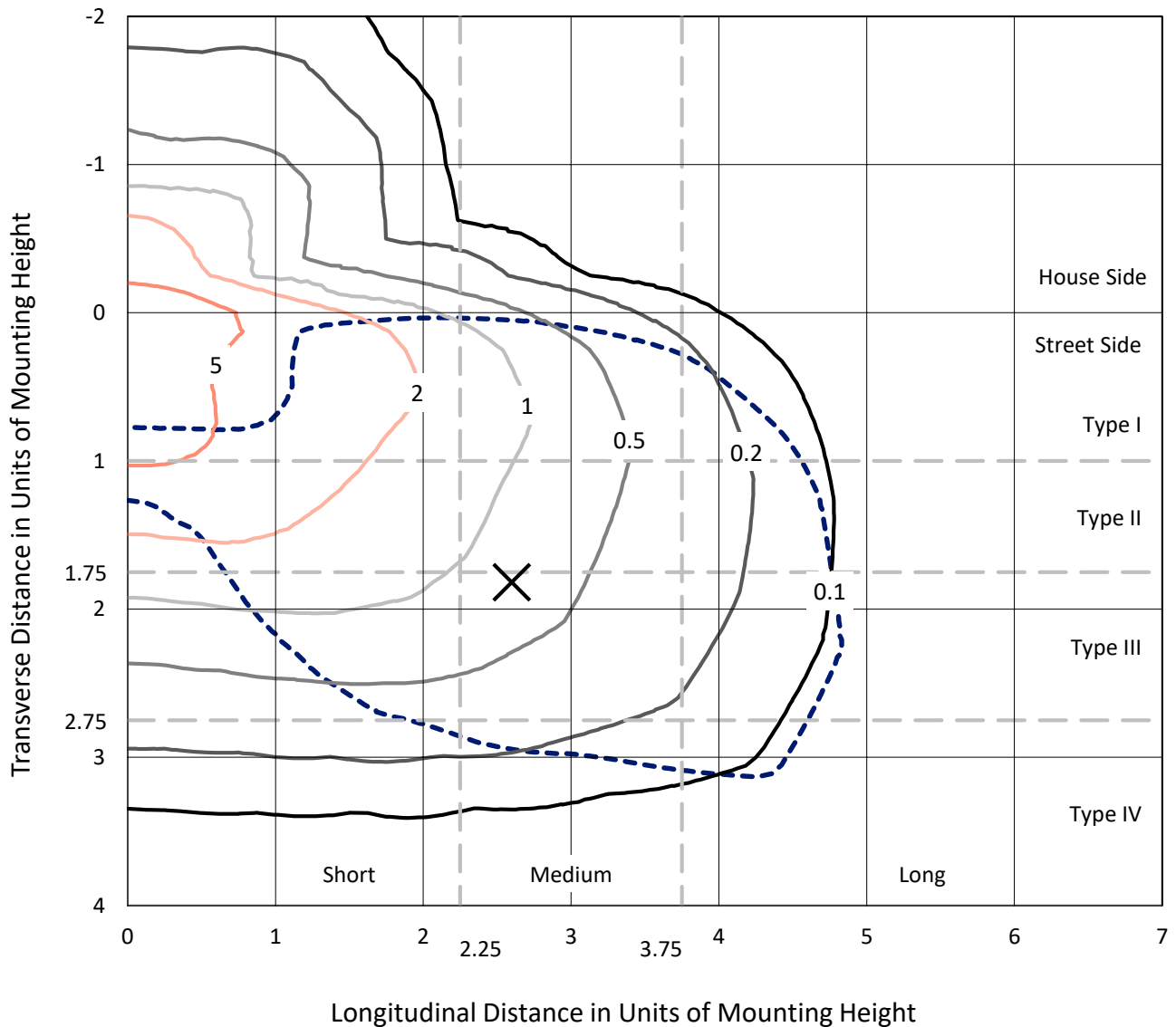
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383125
 CATALOG NUMBER: GLEON-SA4C-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

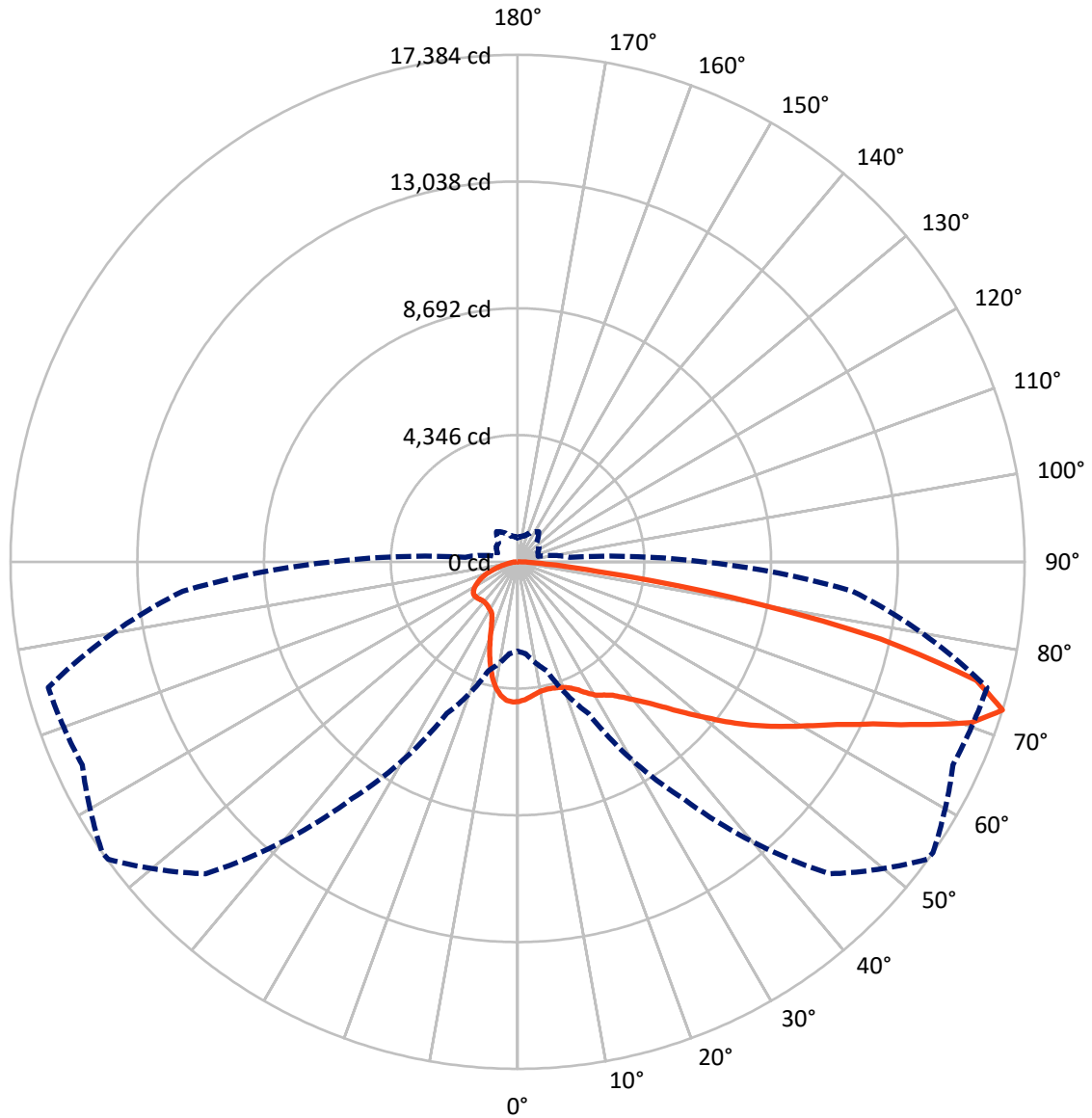
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P383125
CATALOG NUMBER: GLEON-SA4C-735-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P383125
 CATALOG NUMBER: GLEON-SA4C-735-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5051.0	0.0	5051.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22124.1	0.0	22124.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	27175.1	0.0	27175.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	1.6
10°-20°	1154.7	4.2
20°-30°	1903.8	7.0
30°-40°	2816.3	10.4
40°-50°	3930.9	14.5
50°-60°	5118.2	18.8
60°-70°	6290.1	23.1
70°-80°	4930.7	18.1
80°-90°	596.7	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°	27175.1	100.0
0°-180°	27175.1	100.0

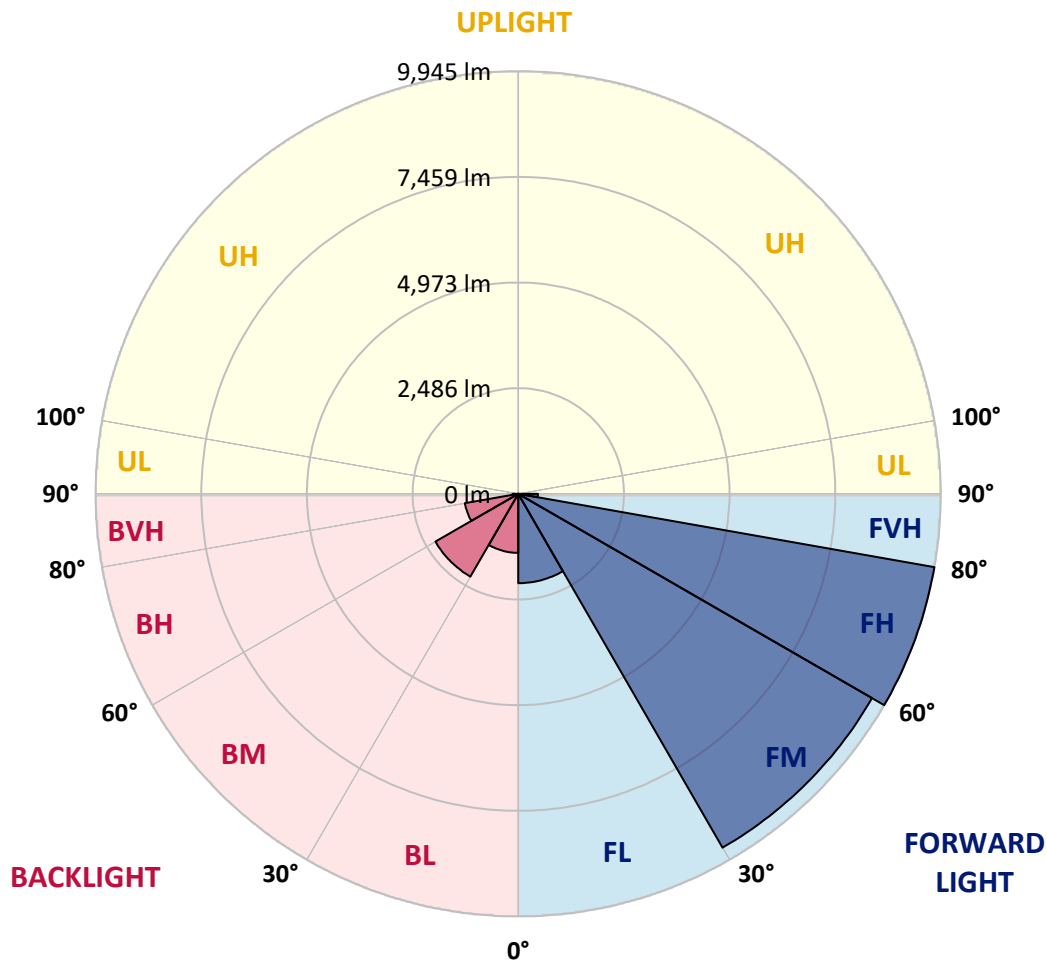


REPORT NUMBER: P383125
 CATALOG NUMBER: GLEON-SA4C-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.6	7.7			
FM (30°-60°)	9615.1	35.4			
FH (60°-80°)	9945.2	36.6			G4/12000
FVH (80°-90°)	461.3	1.7			G3/500
BL (0°-30°)	1389.7	5.1	B3/2500		
BM (30°-60°)	2250.3	8.3	B2/2500		
BH (60°-80°)	1275.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	135.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





REPORT NUMBER: P383125

CATALOG NUMBER: GLEON-SA4C-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1
2.5°	4637.1	4626.1	4639.9	4659.1	4680.2	4708.7	4725.2	4732.5	4761.0	4772.0	4795.9
5°	4422.2	4416.7	4439.8	4472.7	4519.6	4585.6	4638.9	4649.0	4724.3	4777.5	4826.2
7.5°	4266.2	4266.2	4292.9	4332.3	4384.6	4473.7	4548.9	4562.7	4690.3	4805.0	4895.0
10°	4142.3	4147.0	4178.2	4224.9	4286.4	4381.0	4481.0	4496.7	4681.1	4869.3	5012.5
12.5°	4059.7	4070.8	4099.2	4141.4	4217.6	4332.3	4459.0	4480.1	4700.4	4961.0	5153.8
15°	4112.0	4130.4	4133.2	4150.6	4192.8	4317.6	4471.9	4493.9	4741.7	5054.7	5314.5
17.5°	4341.5	4347.9	4319.5	4282.8	4262.6	4342.4	4510.4	4533.4	4791.2	5147.4	5468.7
20°	4690.3	4686.6	4625.1	4526.0	4423.2	4436.0	4573.7	4597.6	4858.3	5229.1	5622.8
22.5°	5130.9	5118.0	5023.5	4840.8	4665.6	4592.1	4684.8	4705.0	4959.3	5345.7	5788.1
25°	5665.1	5636.6	5511.8	5266.7	5008.8	4819.7	4851.9	4871.2	5106.1	5476.0	5939.5
27.5°	6228.6	6200.2	6041.4	5744.9	5401.7	5107.0	5082.2	5098.7	5273.1	5572.3	6051.5
30°	6817.9	6787.6	6642.6	6310.3	5818.4	5404.4	5297.1	5303.4	5390.7	5624.7	6143.3
32.5°	7409.9	7381.5	7219.0	6833.6	6270.9	5723.8	5452.2	5443.9	5461.3	5678.8	6247.1
35°	8010.2	8021.3	7831.2	7404.4	6772.1	6079.0	5635.7	5618.3	5579.7	5789.9	6393.9
37.5°	8652.8	8645.4	8399.4	7953.4	7296.2	6464.6	5899.1	5896.4	5763.3	6000.1	6624.2
40°	9082.3	9086.9	8937.3	8515.1	7825.7	6891.3	6236.9	6230.5	6056.1	6315.0	6926.2
42.5°	9250.3	9280.5	9319.1	9051.1	8380.1	7386.1	6639.9	6630.7	6464.6	6766.5	7281.4
45°	9262.2	9322.7	9561.4	9527.5	8941.8	7952.4	7154.8	7129.0	7009.7	7366.8	7705.5
47.5°	9159.4	9221.9	9618.3	9811.1	9443.9	8549.9	7756.9	7736.7	7633.9	8117.6	8164.5
50°	8934.6	8994.2	9500.9	9949.7	9857.0	9124.5	8450.8	8397.5	8342.5	8985.0	8689.5
52.5°	8513.2	8628.0	9343.9	9982.7	10103.8	9634.8	9180.5	9145.7	9175.9	9900.1	9215.4
55°	7515.5	7644.0	8939.1	9955.2	10286.5	10063.5	9910.2	9908.4	10065.4	10860.2	9779.9
57.5°	6956.5	7047.3	8114.9	9908.4	10503.2	10489.4	10632.6	10650.0	10955.7	11905.6	10371.0
60°	6640.8	6736.2	7697.2	9734.9	10839.1	11040.1	11369.6	11404.5	11860.7	13063.1	11082.3
62.5°	6353.4	6458.1	7438.4	9381.5	11234.7	11827.7	12252.6	12283.9	12818.9	14252.7	11769.8
65°	5862.4	5980.8	7059.4	9149.3	11594.5	12854.7	13375.2	13396.3	13919.5	15499.1	12295.8
67.5°	5168.5	5276.8	6344.3	8636.2	11860.7	14102.1	14867.6	14879.5	15010.8	16379.3	12564.7
70°	4358.1	4399.3	5325.5	7577.0	11545.9	15268.7	16503.3	16506.0	16005.8	16942.9	12520.7
72.5°	3062.0	3159.3	3866.0	5735.7	9922.2	15126.5	17352.3	17383.5	16468.4	16658.4	11520.2
75°	1878.0	1980.7	2425.0	3476.0	6294.7	11896.5	16032.4	16249.0	15601.0	14853.0	9410.9
77.5°	1255.6	1294.2	1582.4	2026.7	2851.8	6844.5	12326.1	12733.6	12960.2	10831.8	6018.4
80°	700.3	773.7	1049.1	1259.4	1268.5	2719.7	7390.7	7486.1	7210.7	4313.1	1856.9
82.5°	370.8	411.2	700.3	739.8	692.0	910.5	2754.5	2757.3	2303.8	1156.5	551.7
85°	287.3	321.3	480.0	451.6	353.3	403.8	908.7	958.3	783.9	473.6	179.9
87.5°	143.2	178.1	325.9	286.4	138.6	115.6	324.9	346.9	309.4	185.4	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383125
 CATALOG NUMBER: GLEON-SA4C-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1	4793.1
2.5°	4805.0	4813.3	4823.4	4812.4	4808.7	4794.0	4769.2	4763.7	4750.9	4751.8	4759.2
5°	4847.2	4861.0	4855.5	4813.3	4762.8	4692.1	4618.7	4556.3	4515.0	4512.2	4509.5
7.5°	4928.1	4937.2	4894.1	4773.8	4632.5	4469.1	4314.9	4179.9	4098.3	4078.1	4073.5
10°	5054.7	5052.9	4934.5	4692.1	4410.3	4118.5	3870.7	3683.4	3574.2	3542.0	3533.8
12.5°	5196.1	5174.9	4948.2	4543.4	4096.5	3691.6	3377.8	3169.4	3055.6	3018.9	3009.6
15°	5342.0	5289.7	4914.3	4321.4	3710.9	3231.8	2902.3	2709.5	2648.0	2627.9	2624.2
17.5°	5477.9	5376.9	4816.9	4020.3	3271.3	2773.8	2516.8	2439.7	2454.3	2481.0	2481.9
20°	5610.9	5435.6	4660.9	3640.3	2807.8	2396.6	2309.4	2366.2	2436.0	2490.2	2497.5
22.5°	5742.2	5476.9	4459.9	3201.5	2392.9	2184.5	2246.1	2349.7	2429.6	2488.3	2498.4
25°	5852.4	5487.0	4182.7	2733.4	2104.6	2104.6	2215.7	2314.0	2392.9	2450.7	2460.8
27.5°	5892.7	5419.1	3791.7	2300.2	1959.6	2067.9	2173.5	2255.2	2322.2	2383.7	2394.7
30°	5908.3	5293.3	3340.2	1952.3	1900.0	2028.4	2116.6	2186.3	2249.7	2307.5	2317.6
32.5°	5911.0	5141.9	2861.0	1754.9	1858.7	1987.2	2046.0	2107.4	2175.3	2198.3	2202.0
35°	5928.5	4962.9	2356.2	1654.0	1820.2	1948.6	1995.5	2039.5	1929.3	1937.6	1945.0
37.5°	5979.0	4785.7	1934.0	1597.0	1795.4	1928.4	1984.5	1824.7	1738.5	1718.2	1715.5
40°	6073.5	4596.7	1621.0	1551.2	1786.1	1938.6	1913.8	1703.5	1554.8	1443.8	1427.3
42.5°	6204.8	4392.9	1420.9	1520.9	1792.6	1987.2	1815.6	1587.0	1340.1	1268.5	1259.4
45°	6352.6	4179.0	1312.6	1499.8	1814.7	2024.8	1795.4	1431.9	1240.1	1185.9	1181.3
47.5°	6495.8	3917.4	1256.6	1490.7	1844.9	1994.5	1709.9	1384.2	1192.3	1163.9	1166.6
50°	6660.0	3681.6	1222.6	1480.5	1871.6	1975.3	1613.6	1359.4	1173.9	1208.9	1245.6
52.5°	6798.6	3437.4	1192.3	1460.3	1881.6	1941.3	1588.8	1364.0	1173.9	1240.9	1275.8
55°	6962.9	3253.0	1157.4	1418.1	1862.3	1844.9	1571.4	1391.5	1187.7	1145.5	1149.2
57.5°	7175.0	3192.3	1118.9	1352.0	1798.1	1704.5	1563.1	1418.1	1179.4	1152.9	1162.0
60°	7468.7	3256.6	1103.2	1265.7	1698.0	1594.3	1564.1	1404.3	1121.7	1075.8	1076.7
62.5°	7748.6	3328.2	1102.4	1211.6	1575.1	1496.2	1542.9	1359.4	1092.2	1065.7	1075.8
65°	7840.5	3255.7	1058.3	1151.0	1436.4	1378.6	1504.4	1311.6	1070.3	1029.8	1028.1
67.5°	7717.4	3030.8	969.3	1052.8	1277.7	1241.8	1453.9	1254.7	1035.3	1002.3	996.8
70°	7352.1	2528.7	859.2	923.3	1096.9	1087.7	1374.0	1188.7	988.6	960.1	936.2
72.5°	6369.1	1801.8	724.2	768.2	893.1	922.4	1263.9	1102.4	922.4	860.9	824.2
75°	5230.9	1333.7	594.8	603.9	678.3	758.2	1112.5	1001.4	844.4	739.8	711.3
77.5°	3203.3	815.9	473.6	477.3	486.5	604.9	916.0	888.5	745.3	616.8	596.7
80°	1037.2	445.2	342.3	359.8	332.3	443.3	708.6	756.3	639.8	515.8	493.8
82.5°	394.7	259.7	231.3	243.2	230.4	297.3	516.7	605.8	524.1	424.0	345.1
85°	190.9	146.9	136.8	153.2	142.2	152.4	330.4	446.1	397.4	276.3	257.0
87.5°	67.9	65.2	52.4	70.7	60.6	54.1	101.0	224.9	262.5	190.0	169.8
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)