

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: P191363

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191363
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-05-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24129.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

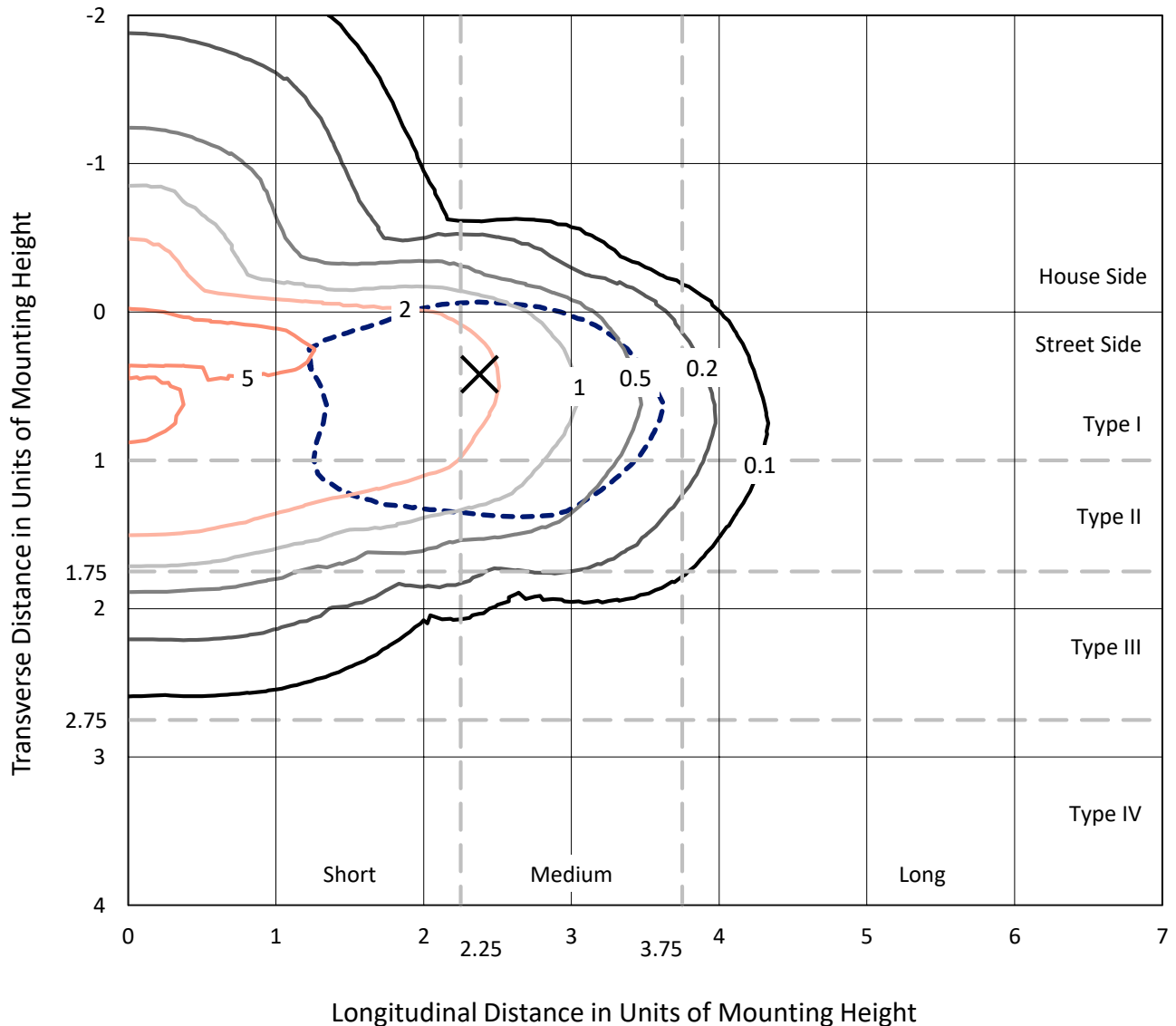
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

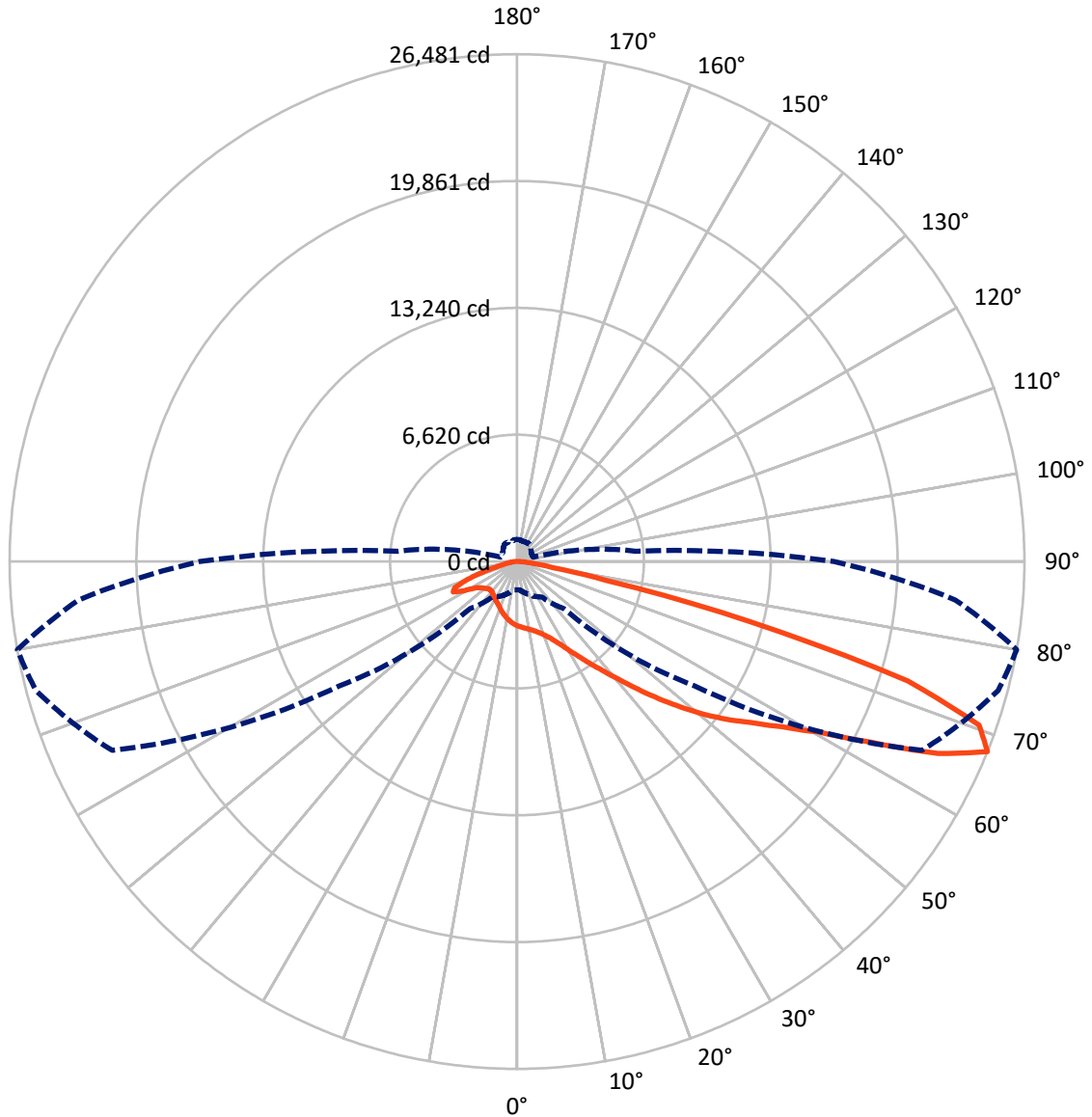
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	4443.7	0.0	4443.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	19685.6	0.0	19685.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	24129.4	0.0	24129.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	1.3
10°-20°	890.8	3.7
20°-30°	1474.5	6.1
30°-40°	2411.9	10.0
40°-50°	3894.2	16.1
50°-60°	5622.1	23.3
60°-70°	6204.3	25.7
70°-80°	2859.8	11.9
80°-90°	462.6	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°	24129.4	100.0
0°-180°	24129.4	100.0



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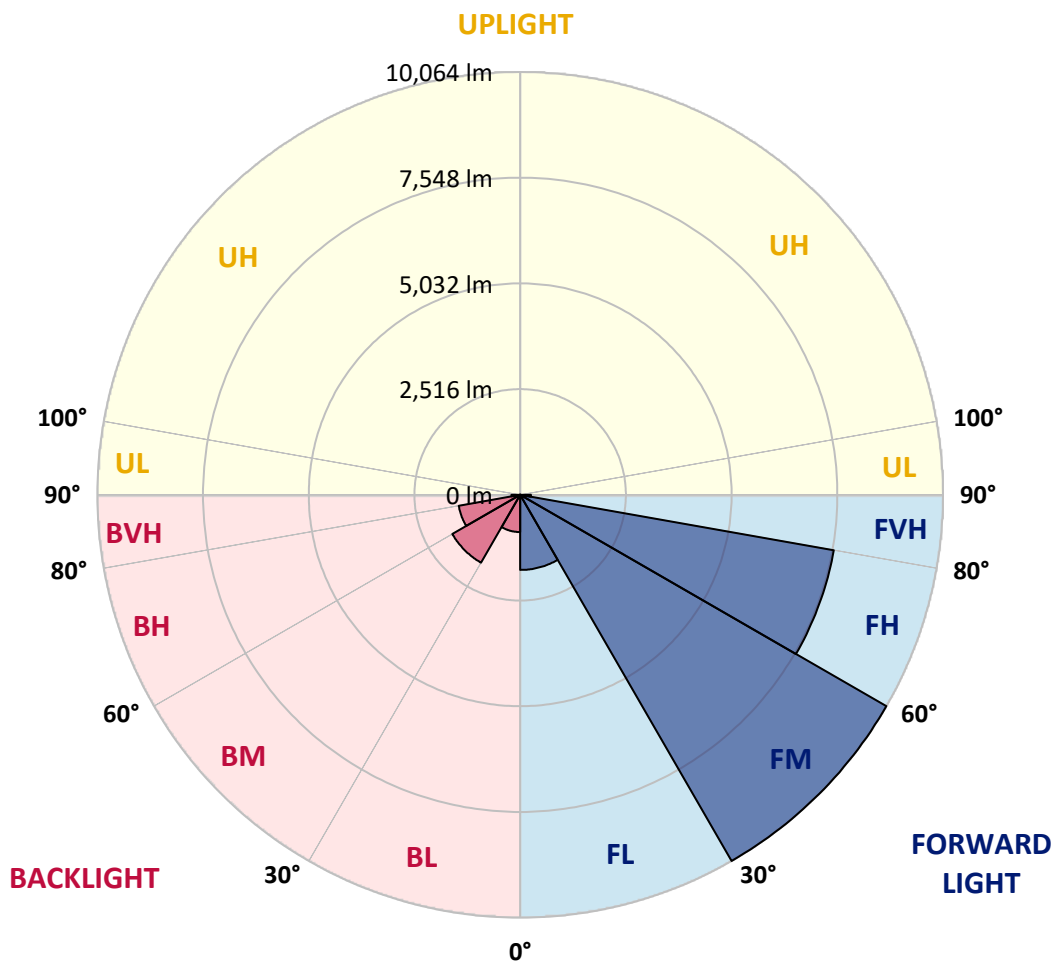
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.9	7.4			
FM (30°-60°)	10063.7	41.7			
FH (60°-80°)	7579.7	31.4			G4/12000
FVH (80°-90°)	254.3	1.1			G3/500
BL (0°-30°)	886.6	3.7	B2/1000		
BM (30°-60°)	1864.4	7.7	B2/2500		
BH (60°-80°)	1484.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	208.3	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3
2.5°	3667.1	3645.7	3649.3	3643.3	3625.4	3594.6	3561.3	3500.7	3437.8	3404.6	3378.4
5°	3973.6	3967.6	3959.3	3940.3	3895.2	3831.0	3751.4	3644.5	3529.3	3468.7	3410.5
7.5°	4202.8	4199.2	4188.6	4176.7	4132.7	4055.5	3935.5	3783.5	3616.0	3532.9	3442.5
10°	4221.8	4227.8	4236.0	4268.2	4274.1	4232.5	4110.1	3926.0	3706.3	3599.4	3484.2
12.5°	4060.3	4073.3	4105.4	4187.3	4274.1	4325.1	4262.2	4075.7	3812.0	3682.5	3536.4
15°	3846.4	3853.6	3892.7	4005.6	4161.3	4319.2	4378.6	4240.8	3948.6	3789.4	3614.8
17.5°	3754.9	3758.5	3785.8	3860.7	4005.6	4231.3	4444.0	4420.2	4116.0	3922.5	3711.1
20°	3708.6	3717.0	3756.2	3829.8	3921.3	4118.5	4453.4	4613.8	4315.6	4088.7	3832.2
22.5°	3840.5	3837.0	3851.2	3888.0	3965.3	4084.0	4446.4	4813.4	4569.8	4302.6	3990.2
25°	4148.2	4161.3	4136.3	4094.7	4119.6	4202.8	4484.3	5029.6	4888.3	4577.0	4196.9
27.5°	4586.5	4573.4	4536.6	4439.2	4388.2	4423.8	4610.2	5262.5	5283.8	4938.1	4470.1
30°	5023.6	5013.0	4977.4	4858.5	4754.0	4724.3	4854.9	5529.7	5755.4	5371.7	4805.1
32.5°	5477.4	5465.5	5432.3	5313.5	5187.6	5118.6	5203.0	5838.6	6311.3	5889.6	5199.5
35°	6036.9	6014.3	5944.3	5779.2	5655.6	5602.2	5641.4	6227.0	6952.8	6502.6	5678.2
37.5°	6563.2	6597.6	6526.3	6298.3	6137.9	6118.9	6162.9	6700.9	7644.2	7188.0	6228.2
40°	7091.8	7097.7	7033.6	6847.1	6682.0	6651.1	6761.6	7275.9	8460.3	8007.7	6896.9
42.5°	7638.3	7650.1	7542.0	7369.7	7248.6	7254.6	7380.5	7949.5	9396.3	8973.4	7666.7
45°	8285.6	8303.5	8184.6	7959.0	7848.5	8070.7	8018.4	8705.0	10422.6	10071.1	8550.5
47.5°	8962.8	8990.1	8899.8	8688.3	8550.5	8855.8	8656.3	9542.5	11527.4	11248.3	9521.1
50°	9332.2	9371.4	9459.3	9443.9	9414.1	9363.1	9367.9	10440.5	12666.7	12474.2	10518.9
52.5°	9133.8	9132.6	9453.4	9843.0	10258.8	10289.7	10235.0	11387.3	13731.0	13672.8	11458.6
55°	8226.3	8288.0	8773.8	9528.2	10663.9	11373.0	11534.6	12471.8	14776.3	14844.0	12412.4
57.5°	6715.3	6766.3	7422.0	8473.3	10117.4	12016.8	13383.0	14048.2	15945.2	16261.2	13682.3
60°	4554.4	4616.2	5311.2	6573.9	8646.8	11658.1	15142.2	16861.1	17344.6	18063.3	15464.2
62.5°	2676.3	2732.2	3298.8	4146.9	6088.0	9991.5	15914.4	20863.2	19567.2	20782.4	18182.1
65°	1842.4	1880.5	2156.1	2581.3	3498.4	6729.5	14957.0	23626.3	22987.1	24151.4	21333.6
67.5°	1482.5	1477.8	1696.4	1986.2	2252.2	3469.8	11310.1	23313.9	25994.9	26480.8	22969.3
70°	1221.2	1216.4	1364.9	1604.9	1799.7	1954.1	6160.5	19674.1	25382.0	25579.2	21463.0
72.5°	1021.6	1026.3	1121.4	1299.6	1476.5	1471.8	2707.2	13840.3	19967.5	21331.2	17109.4
75°	862.4	864.8	927.7	1053.6	1198.6	1185.5	1468.2	7498.0	11607.0	12556.2	9484.3
77.5°	734.2	736.5	776.9	847.0	950.3	945.6	1071.5	3239.4	4841.9	4782.5	3244.2
80°	654.6	654.6	673.5	686.6	743.6	722.2	794.7	1556.1	2046.7	1890.0	1294.9
82.5°	513.2	515.6	632.0	627.2	585.6	558.3	558.3	917.1	1084.5	1002.6	757.9
85°	288.7	287.4	407.4	491.8	515.6	393.2	389.6	513.2	590.3	520.3	367.0
87.5°	123.6	125.9	188.8	218.6	292.3	244.7	241.1	264.9	300.5	260.1	169.9
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°	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3	3352.3
2.5°	3353.4	3322.5	3254.8	3170.5	3094.5	3044.6	2999.5	2934.1	2937.7	2892.6	2859.2
5°	3351.1	3286.9	3130.1	2943.6	2764.2	2634.8	2537.3	2449.5	2428.1	2386.5	2361.6
7.5°	3353.4	3248.9	2985.2	2687.1	2464.9	2300.9	2217.9	2171.5	2160.8	2146.6	2147.7
10°	3361.7	3214.5	2826.0	2447.1	2214.3	2106.2	2086.0	2100.2	2116.9	2121.6	2122.8
12.5°	3380.8	3183.6	2651.4	2233.3	2057.5	2024.2	2058.7	2107.4	2139.4	2154.8	2153.7
15°	3423.5	3159.8	2483.9	2065.7	1970.7	1988.5	2052.7	2121.6	2167.9	2189.3	2190.5
17.5°	3469.8	3125.4	2311.7	1937.5	1906.6	1951.7	2031.3	2112.1	2169.2	2192.9	2197.6
20°	3530.4	3082.7	2131.1	1841.2	1846.0	1897.1	1971.9	2052.7	2115.7	2135.8	2145.3
22.5°	3610.1	3036.3	1973.1	1762.9	1777.1	1816.4	1874.6	1944.6	1999.3	2008.8	2017.1
25°	3717.0	2986.4	1847.2	1691.6	1697.5	1720.1	1759.3	1800.9	1838.9	1828.2	1836.5
27.5°	3860.7	2943.6	1753.3	1626.3	1615.5	1620.4	1640.5	1653.6	1673.8	1644.1	1647.7
30°	4029.4	2897.3	1680.9	1569.2	1539.5	1531.3	1536.0	1543.1	1558.6	1518.2	1512.2
32.5°	4225.4	2841.5	1613.2	1519.3	1477.8	1461.1	1463.5	1482.5	1541.9	1516.9	1503.8
35°	4453.4	2778.5	1541.9	1464.7	1436.2	1412.4	1410.0	1469.5	1646.4	1631.0	1619.1
37.5°	4720.7	2715.5	1470.6	1402.9	1405.3	1379.1	1370.9	1438.6	1666.6	1606.0	1597.7
40°	5060.4	2682.3	1410.0	1337.6	1367.3	1363.7	1347.1	1381.5	1533.6	1423.1	1408.8
42.5°	5481.0	2687.1	1364.9	1267.5	1322.2	1360.1	1334.0	1335.2	1389.9	1306.7	1293.6
45°	6000.1	2742.8	1332.8	1211.7	1271.0	1356.6	1329.2	1310.3	1315.0	1271.0	1264.0
47.5°	6605.9	2858.1	1310.3	1165.3	1222.3	1343.5	1328.1	1303.1	1292.4	1268.7	1262.7
50°	7279.5	3025.6	1293.6	1121.4	1178.4	1322.2	1329.2	1296.0	1284.1	1274.6	1271.0
52.5°	7941.2	3216.9	1268.7	1083.4	1144.0	1296.0	1332.8	1288.9	1275.8	1268.7	1265.1
55°	8678.8	3455.6	1230.7	1051.3	1115.4	1262.7	1332.8	1278.2	1264.0	1265.1	1264.0
57.5°	9675.5	3841.7	1185.5	1024.0	1081.0	1222.3	1310.3	1266.3	1248.5	1249.6	1250.9
60°	11232.8	4522.4	1130.9	996.7	1038.2	1174.9	1279.4	1240.1	1222.3	1227.1	1228.3
62.5°	13523.1	5521.4	1059.6	956.3	993.1	1123.7	1236.6	1206.9	1189.1	1200.9	1200.9
65°	15903.7	6402.9	971.7	905.2	945.6	1068.0	1183.1	1165.3	1147.5	1174.9	1173.6
67.5°	16544.0	6205.6	883.8	849.4	898.0	1006.2	1119.0	1109.5	1100.0	1147.5	1145.1
70°	14696.7	4982.1	803.0	792.4	845.8	939.7	1050.1	1050.1	1044.1	1079.8	1071.5
72.5°	11197.2	3532.9	725.8	731.7	786.4	867.2	975.3	983.6	974.1	991.9	984.8
75°	5994.2	2021.9	648.6	665.2	712.8	793.5	892.1	900.4	894.5	893.3	896.8
77.5°	1992.1	988.4	567.8	593.9	635.6	717.5	805.4	818.5	804.2	801.8	800.7
80°	887.4	621.2	478.7	513.2	550.0	630.8	713.9	724.7	709.2	730.6	703.3
82.5°	570.2	408.7	383.7	421.7	457.4	544.1	622.5	624.8	610.6	709.2	604.7
85°	276.8	253.0	288.7	323.2	354.0	427.7	515.6	516.7	481.1	438.3	422.9
87.5°	137.8	147.3	192.4	223.3	238.8	293.4	375.4	368.3	352.8	320.7	295.8
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)