

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: P193913

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193913
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-T2-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23823 lumens
Efficiency: N/A
Efficacy: 85.4 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 - G3

Input Watts (W): 279
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

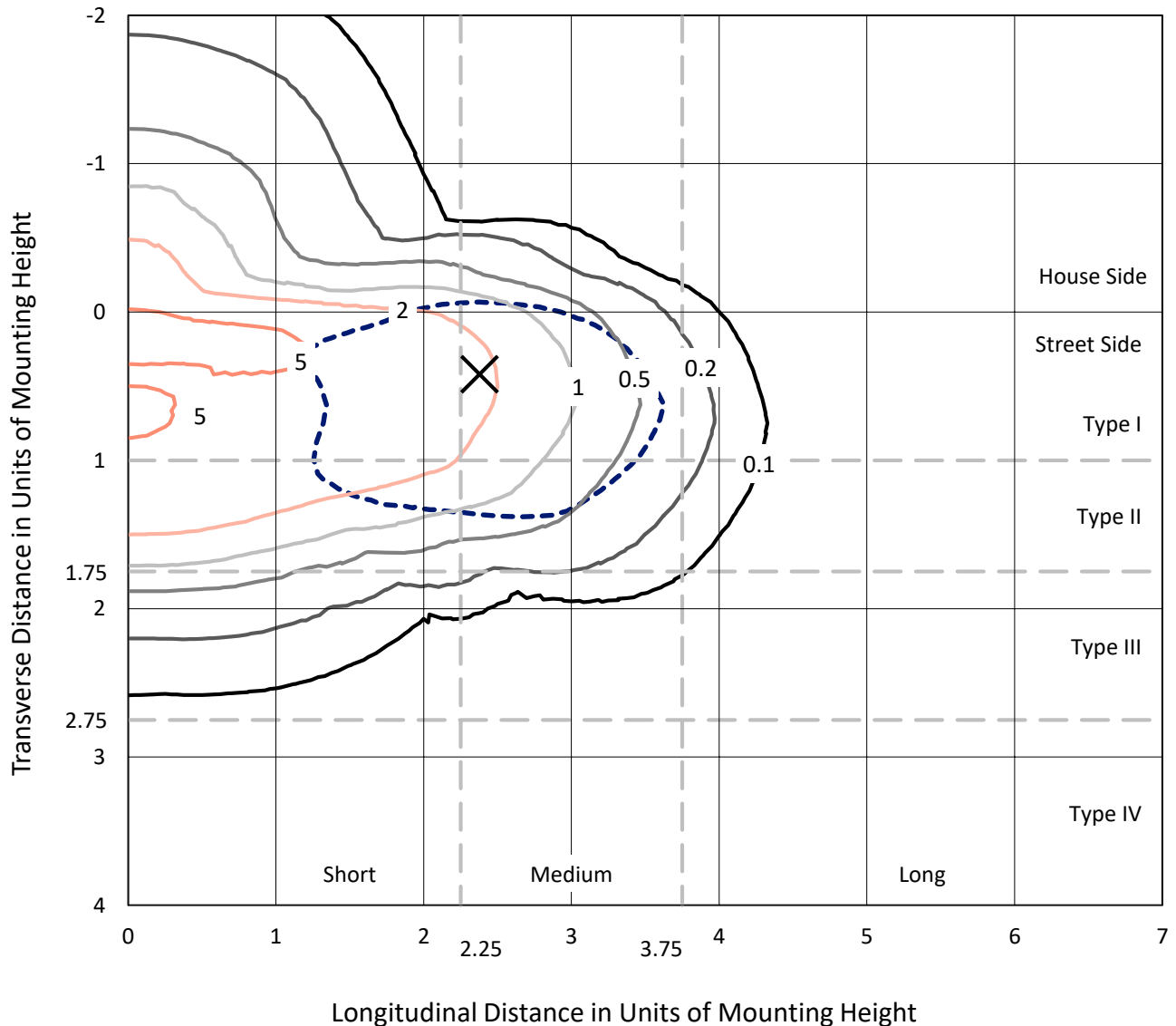


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

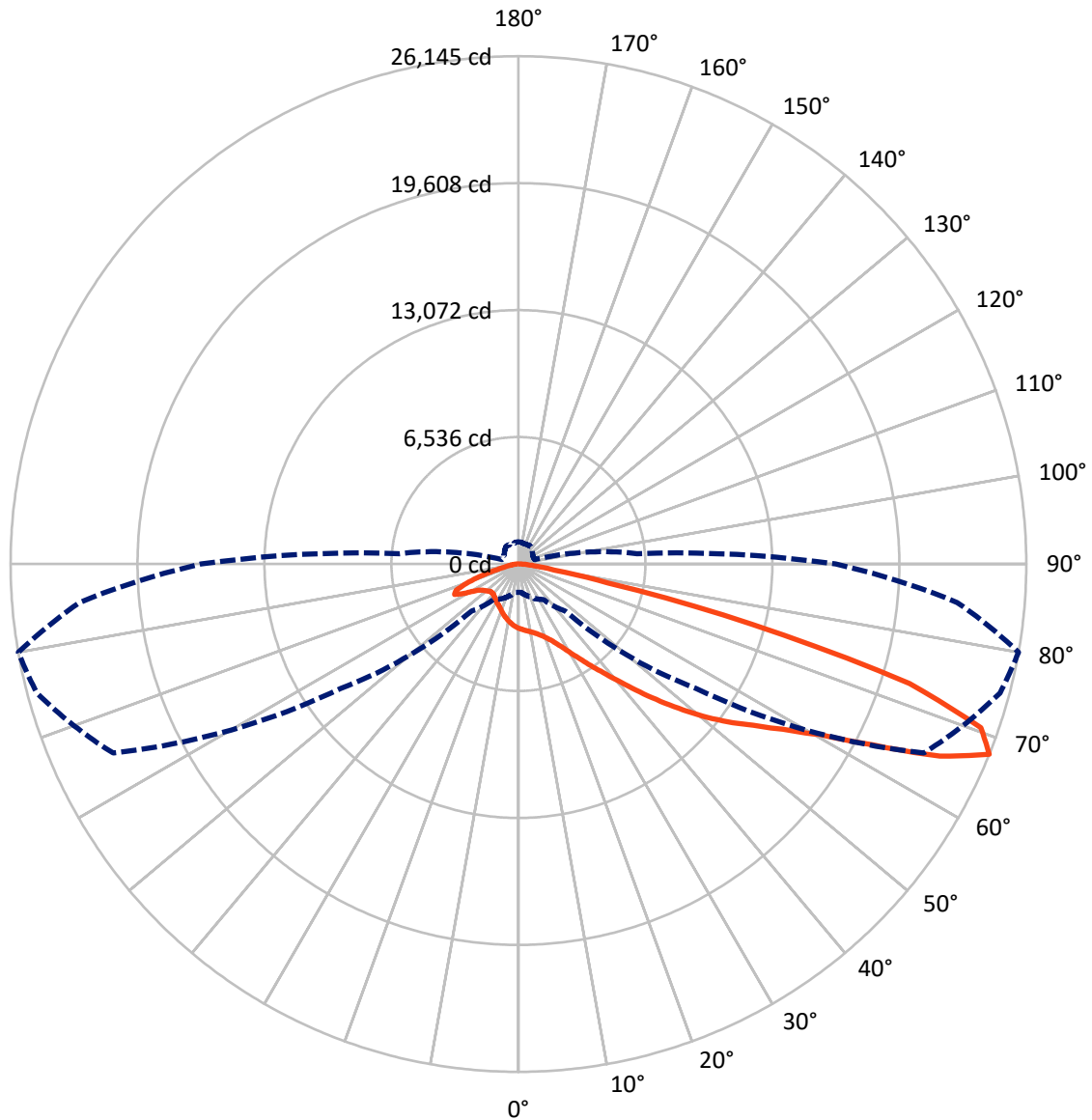


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - Full Cutoff

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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	4387.3	0.0	4387.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	19435.7	0.0	19435.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	23823.0	0.0	23823.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.3
10°-20°	879.5	3.7
20°-30°	1455.8	6.1
30°-40°	2381.2	10.0
40°-50°	3844.8	16.1
50°-60°	5550.7	23.3
60°-70°	6125.5	25.7
70°-80°	2823.5	11.9
80°-90°	456.7	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°	23823.0	100.0
0°-180°	23823.0	100.0



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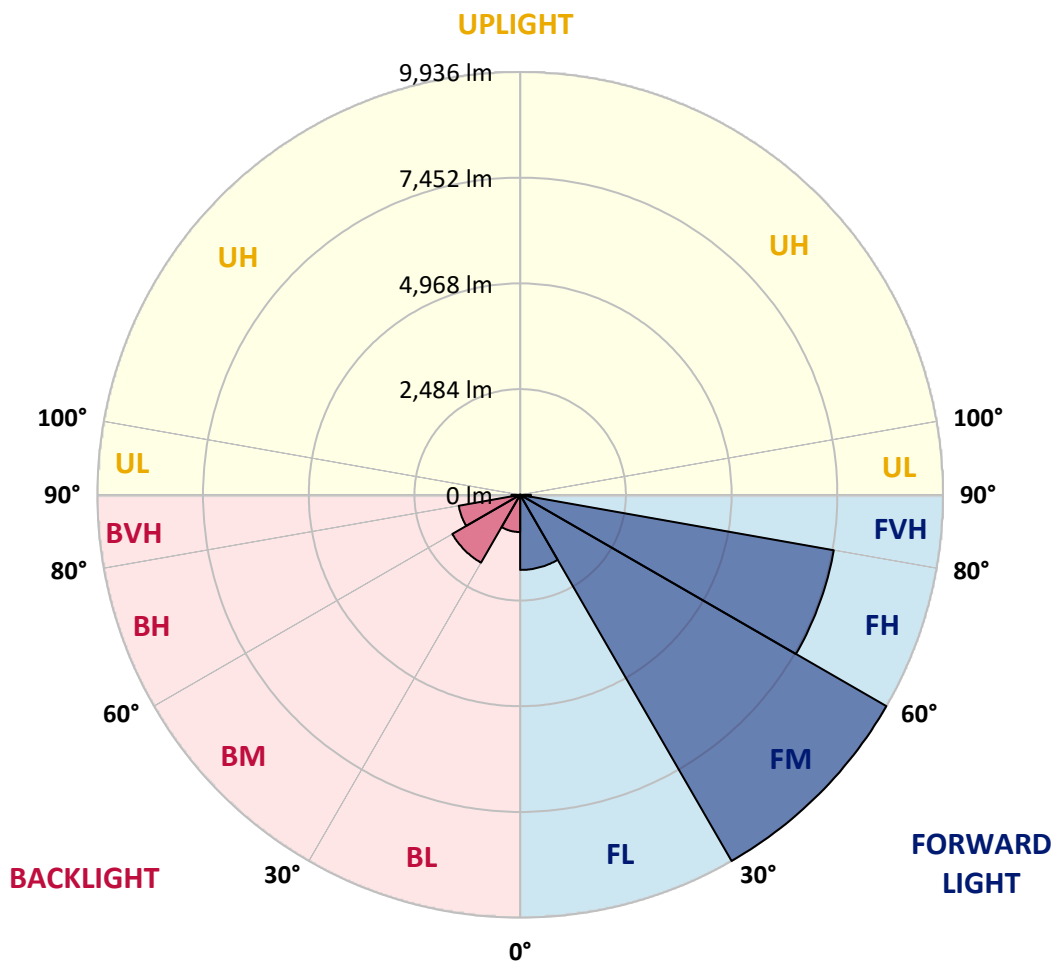
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.2	7.4			
FM (30°-60°)	9936.0	41.7			
FH (60°-80°)	7483.4	31.4			G3/7500
FVH (80°-90°)	251.1	1.1			G3/500
BL (0°-30°)	875.3	3.7	B2/1000		
BM (30°-60°)	1840.7	7.7	B2/2500		
BH (60°-80°)	1465.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	205.6	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7
2.5°	3620.5	3599.4	3602.9	3597.0	3579.5	3549.0	3516.1	3456.3	3394.2	3361.3	3335.5
5°	3923.1	3917.2	3909.0	3890.3	3845.7	3782.4	3703.8	3598.2	3484.5	3424.6	3367.2
7.5°	4149.4	4145.9	4135.4	4123.6	4080.3	4004.0	3885.6	3735.4	3570.1	3488.0	3398.8
10°	4168.2	4174.1	4182.3	4214.0	4219.8	4178.8	4058.0	3876.2	3659.2	3553.7	3439.9
12.5°	4008.7	4021.6	4053.3	4134.2	4219.8	4270.2	4208.1	4024.0	3763.6	3635.8	3491.5
15°	3797.6	3804.6	3843.3	3954.8	4108.4	4264.4	4323.0	4187.0	3898.5	3741.3	3568.9
17.5°	3707.3	3710.8	3737.8	3811.7	3954.8	4177.6	4387.5	4364.1	4063.8	3872.7	3663.9
20°	3661.6	3669.8	3708.5	3781.2	3871.5	4066.2	4396.9	4555.2	4260.9	4036.9	3783.5
22.5°	3791.7	3788.2	3802.3	3838.7	3914.9	4032.2	4389.9	4752.3	4511.9	4248.0	3939.5
25°	4095.5	4108.4	4083.8	4042.7	4067.4	4149.4	4427.4	4965.7	4826.2	4518.9	4143.6
27.5°	4528.3	4515.4	4479.0	4382.8	4332.4	4367.6	4551.7	5195.6	5216.7	4875.4	4413.3
30°	4959.9	4949.3	4914.1	4796.8	4693.6	4664.3	4793.3	5459.5	5682.3	5303.5	4744.1
32.5°	5407.9	5396.2	5363.3	5246.0	5121.7	5053.7	5137.0	5764.4	6231.2	5814.9	5133.4
35°	5960.3	5938.0	5868.8	5705.8	5583.8	5531.0	5569.7	6147.9	6864.5	6420.0	5606.1
37.5°	6479.8	6513.9	6443.5	6218.3	6060.0	6041.2	6084.6	6615.9	7547.1	7096.8	6149.1
40°	7001.8	7007.6	6944.3	6760.2	6597.1	6566.6	6675.7	7183.5	8352.8	7906.0	6809.4
42.5°	7541.3	7553.0	7446.3	7276.2	7156.6	7162.4	7286.8	7848.5	9277.0	8859.5	7569.4
45°	8180.4	8198.0	8080.8	7857.9	7748.8	7968.2	7916.6	8594.4	10290.4	9943.2	8442.0
47.5°	8849.0	8875.9	8786.8	8578.0	8442.0	8743.4	8546.4	9421.3	11381.1	11105.5	9400.2
50°	9213.7	9252.4	9339.2	9323.9	9294.6	9244.2	9248.9	10307.9	12505.8	12315.8	10385.4
52.5°	9017.8	9016.7	9333.3	9718.0	10128.5	10159.0	10105.0	11242.7	13556.7	13499.2	11313.1
55°	8121.8	8182.8	8662.5	9407.2	10528.4	11228.6	11388.1	12313.5	14588.8	14655.6	12254.8
57.5°	6630.0	6680.4	7327.8	8365.7	9988.9	11864.3	13213.0	13869.8	15742.8	16054.8	13508.6
60°	4496.6	4557.6	5243.7	6490.4	8537.0	11510.1	14950.0	16647.1	17124.4	17834.0	15267.8
62.5°	2642.4	2697.5	3256.9	4094.3	6010.7	9864.6	15712.3	20598.3	19318.7	20518.5	17951.2
65°	1819.0	1856.6	2128.7	2548.5	3454.0	6644.0	14767.0	23326.3	22695.3	23844.7	21062.7
67.5°	1463.7	1459.0	1674.8	1961.0	2223.7	3425.8	11166.5	23017.8	25664.9	26144.6	22677.7
70°	1205.7	1201.0	1347.6	1584.5	1776.8	1929.3	6082.3	19424.3	25059.7	25254.4	21190.6
72.5°	1008.6	1013.3	1107.1	1283.1	1457.8	1453.1	2672.9	13664.6	19714.0	21060.4	16892.2
75°	851.5	853.8	916.0	1040.3	1183.4	1170.5	1449.6	7402.9	11459.7	12396.7	9363.8
77.5°	724.8	727.2	767.0	836.2	938.3	933.6	1057.9	3198.3	4780.4	4721.8	3203.0
80°	646.2	646.2	665.0	677.9	734.2	713.1	784.6	1536.4	2020.8	1866.0	1278.4
82.5°	506.7	509.0	623.9	619.3	578.2	551.2	551.2	905.4	1070.8	989.9	748.3
85°	285.0	283.8	402.3	485.5	509.0	388.2	384.7	506.7	582.9	513.7	362.4
87.5°	122.0	124.3	186.5	215.8	288.5	241.6	238.1	261.5	296.7	256.8	167.7
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°	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7	3309.7
2.5°	3310.9	3280.4	3213.5	3130.3	3055.2	3005.9	2961.4	2896.9	2900.4	2855.8	2823.0
5°	3308.5	3245.2	3090.4	2906.3	2729.2	2601.3	2505.2	2418.4	2397.3	2356.2	2331.6
7.5°	3310.9	3207.7	2947.3	2652.9	2433.6	2271.8	2189.7	2143.9	2133.4	2119.3	2120.5
10°	3319.1	3173.7	2790.1	2416.0	2186.1	2079.4	2059.5	2073.6	2090.0	2094.7	2095.8
12.5°	3337.9	3143.2	2617.7	2204.9	2031.3	1998.5	2032.5	2080.6	2112.3	2127.5	2126.3
15°	3380.1	3119.7	2452.4	2039.5	1945.7	1963.3	2026.6	2094.7	2140.4	2161.5	2162.7
17.5°	3425.8	3085.7	2282.3	1912.9	1882.4	1926.9	2005.5	2085.3	2141.6	2165.0	2169.7
20°	3485.6	3043.5	2104.0	1817.9	1822.6	1873.0	1946.9	2026.6	2088.8	2108.7	2118.1
22.5°	3564.2	2997.7	1948.1	1740.5	1754.5	1793.2	1850.7	1919.9	1973.9	1983.2	1991.5
25°	3669.8	2948.5	1823.7	1670.1	1676.0	1698.2	1737.0	1778.0	1815.5	1805.0	1813.2
27.5°	3811.7	2906.3	1731.1	1605.6	1595.0	1599.7	1619.7	1632.6	1652.5	1623.2	1626.7
30°	3978.2	2860.5	1659.5	1549.3	1520.0	1511.8	1516.5	1523.5	1538.7	1498.9	1493.0
32.5°	4171.7	2805.4	1592.7	1500.0	1459.0	1442.6	1444.9	1463.7	1522.3	1497.7	1484.8
35°	4396.9	2743.2	1522.3	1446.1	1417.9	1394.5	1392.1	1450.8	1625.5	1610.3	1598.6
37.5°	4660.8	2681.1	1452.0	1385.1	1387.5	1361.6	1353.4	1420.3	1645.5	1585.7	1577.4
40°	4996.2	2648.2	1392.1	1320.6	1349.9	1346.4	1330.0	1364.0	1514.1	1405.0	1391.0
42.5°	5411.4	2652.9	1347.6	1251.4	1305.4	1342.9	1317.1	1318.3	1372.2	1290.1	1277.2
45°	5923.9	2708.0	1315.9	1196.3	1254.9	1339.4	1312.4	1293.6	1298.3	1254.9	1247.9
47.5°	6522.1	2821.8	1293.6	1150.5	1206.8	1326.5	1311.2	1286.6	1276.0	1252.6	1246.7
50°	7187.1	2987.2	1277.2	1107.1	1163.4	1305.4	1312.4	1279.6	1267.8	1258.4	1254.9
52.5°	7840.3	3176.0	1252.6	1069.6	1129.4	1279.6	1315.9	1272.5	1259.6	1252.6	1249.1
55°	8568.6	3411.7	1215.0	1037.9	1101.3	1246.7	1315.9	1262.0	1247.9	1249.1	1247.9
57.5°	9552.6	3792.9	1170.5	1011.0	1067.3	1206.8	1293.6	1250.2	1232.6	1233.8	1235.0
60°	11090.2	4464.9	1116.5	984.0	1025.0	1159.9	1263.1	1224.4	1206.8	1211.5	1212.7
62.5°	13351.4	5451.3	1046.2	944.1	980.5	1109.5	1220.9	1191.6	1174.0	1185.7	1185.7
65°	15701.8	6321.5	959.4	893.7	933.6	1054.4	1168.1	1150.5	1132.9	1159.9	1158.7
67.5°	16333.9	6126.8	872.6	838.6	886.7	993.4	1104.8	1095.4	1086.0	1132.9	1130.6
70°	14510.2	4918.8	792.8	782.3	835.1	927.7	1036.8	1036.8	1030.9	1066.1	1057.9
72.5°	11055.0	3488.0	716.6	722.5	776.4	856.2	962.9	971.1	961.7	979.3	972.3
75°	5918.1	1996.1	640.4	656.8	703.7	783.4	880.8	889.0	883.1	882.0	885.5
77.5°	1966.8	975.8	560.6	586.4	627.5	708.4	795.2	808.1	794.0	791.7	790.5
80°	876.1	613.4	472.6	506.7	543.0	622.8	704.9	715.4	700.2	721.3	694.3
82.5°	563.0	403.5	378.8	416.4	451.5	537.2	614.6	616.9	602.8	700.2	597.0
85°	273.3	249.8	285.0	319.0	349.5	422.2	509.0	510.2	475.0	432.8	417.5
87.5°	136.0	145.4	190.0	220.5	235.7	289.7	370.6	363.6	348.3	316.7	292.0
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)