

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: P269340

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269340
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-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27824 lumens
Efficiency: N/A
Efficacy: 87.0 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

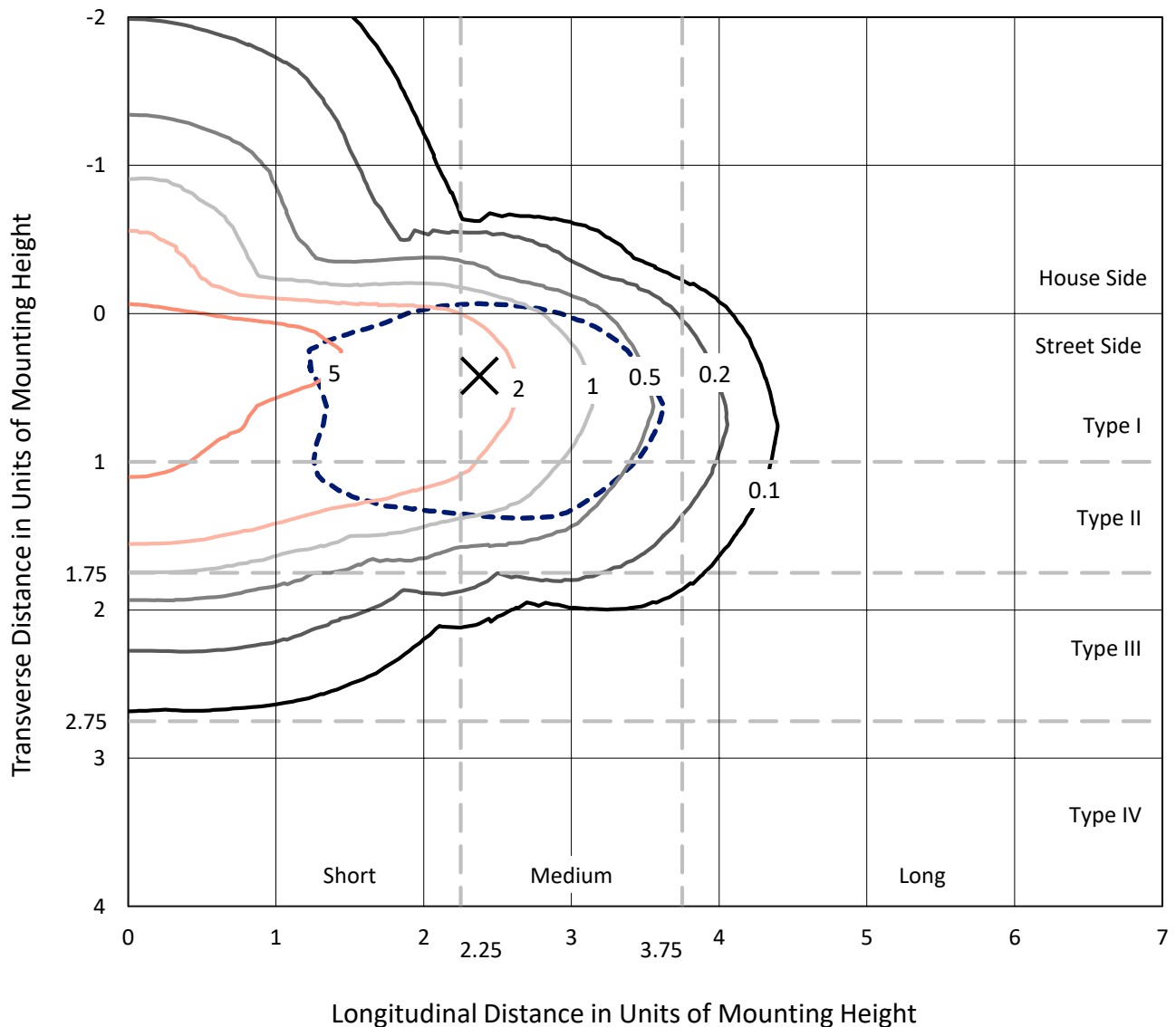
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

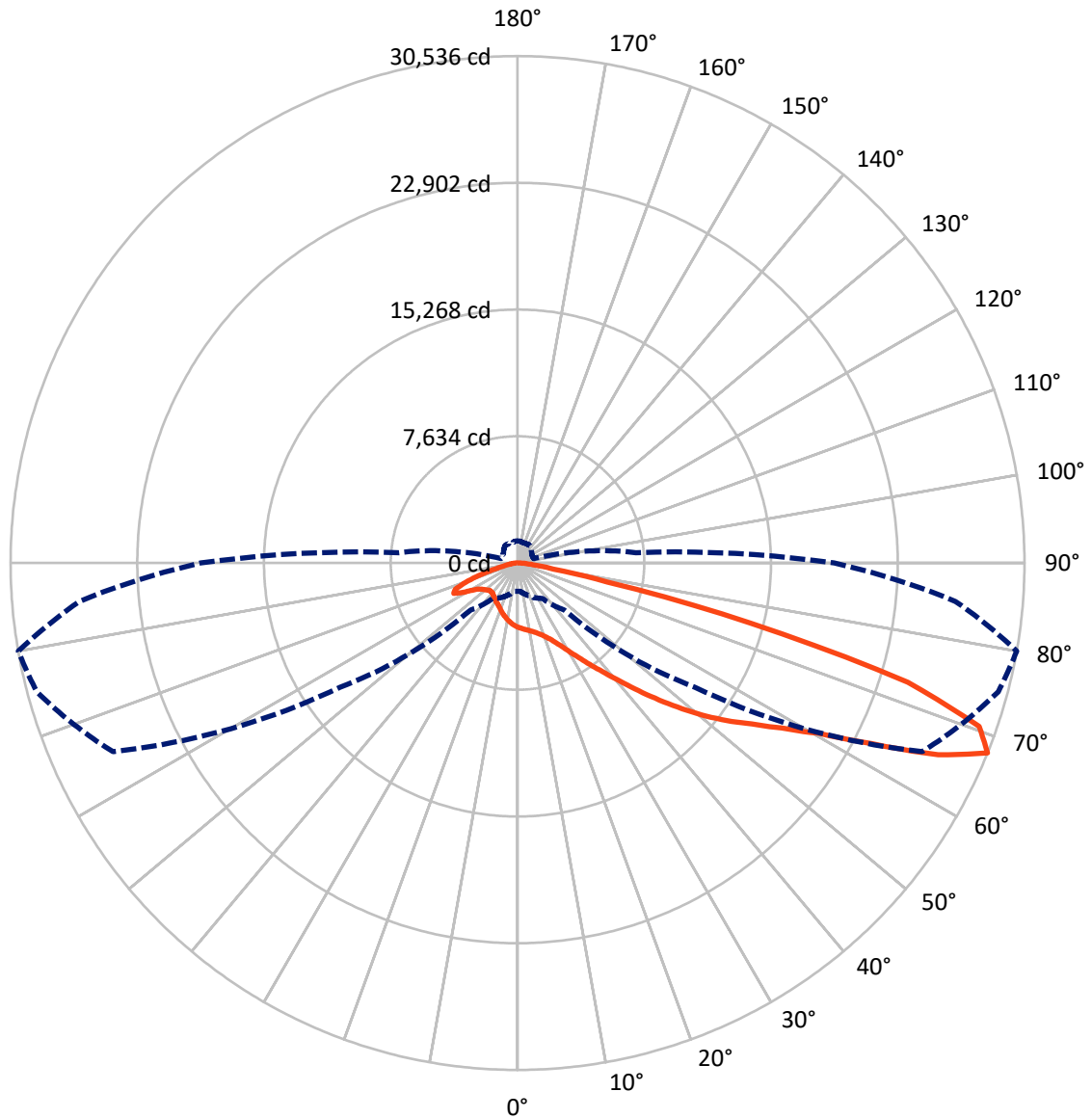
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	5124.1	0.0	5124.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	22699.9	0.0	22699.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	27824.0	0.0	27824.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.3
10°-20°	1027.2	3.7
20°-30°	1700.3	6.1
30°-40°	2781.2	10.0
40°-50°	4490.5	16.1
50°-60°	6482.9	23.3
60°-70°	7154.3	25.7
70°-80°	3297.7	11.9
80°-90°	533.4	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°	27824.0	100.0
0°-180°	27824.0	100.0



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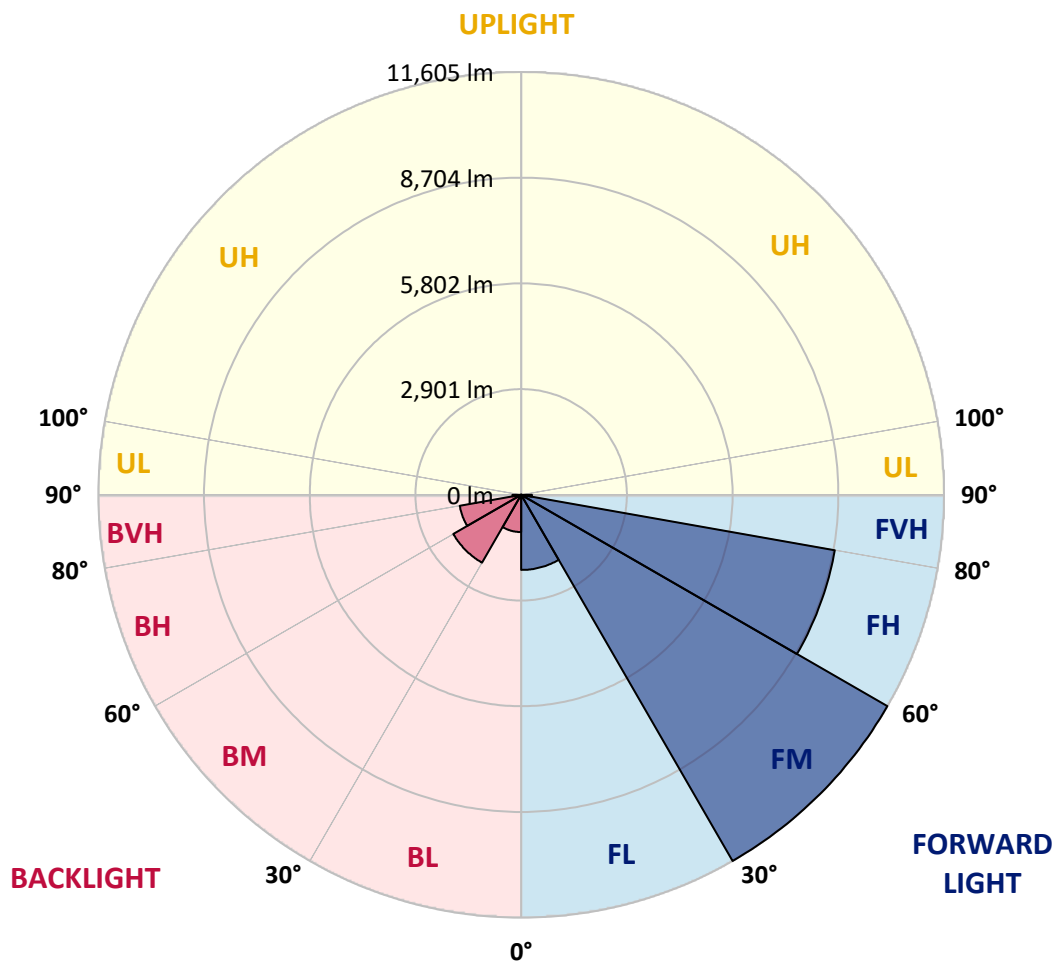
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.7	7.4			
FM (30°-60°)	11604.7	41.7			
FH (60°-80°)	8740.2	31.4			G4/12000
FVH (80°-90°)	293.3	1.1			G3/500
BL (0°-30°)	1022.3	3.7	B3/2500		
BM (30°-60°)	2149.9	7.7	B2/2500		
BH (60°-80°)	1711.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	240.1	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°	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5
2.5°	4228.5	4203.9	4208.0	4201.2	4180.6	4145.0	4106.6	4036.9	3964.2	3925.9	3895.7
5°	4582.0	4575.1	4565.5	4543.5	4491.5	4417.5	4325.8	4202.5	4069.7	3999.9	3932.7
7.5°	4846.4	4842.3	4829.8	4816.3	4765.5	4676.4	4538.1	4362.8	4169.7	4073.8	3969.7
10°	4868.3	4875.1	4884.8	4921.6	4928.6	4880.6	4739.5	4527.2	4273.7	4150.4	4017.6
12.5°	4682.0	4697.1	4734.0	4828.5	4928.6	4987.4	4914.8	4699.8	4395.6	4246.4	4077.9
15°	4435.4	4443.6	4488.8	4618.9	4798.3	4980.7	5049.1	4890.2	4553.1	4369.6	4168.2
17.5°	4329.9	4334.1	4365.6	4451.8	4618.9	4879.2	5124.4	5097.1	4746.4	4523.1	4279.3
20°	4276.6	4286.2	4331.3	4416.2	4521.7	4749.1	5135.4	5320.3	4976.5	4714.8	4418.9
22.5°	4428.6	4424.4	4441.0	4483.4	4572.5	4709.4	5127.2	5550.4	5269.5	4961.3	4601.2
25°	4783.4	4798.3	4769.6	4721.8	4750.4	4846.4	5171.0	5799.6	5636.8	5277.8	4839.4
27.5°	5288.9	5273.7	5231.3	5118.9	5060.1	5101.1	5316.2	6068.2	6092.8	5694.3	5154.6
30°	5792.9	5780.6	5739.5	5602.5	5481.9	5447.7	5598.3	6376.3	6636.7	6194.3	5540.8
32.5°	6316.2	6302.4	6264.2	6127.1	5982.0	5902.5	5999.7	6732.5	7277.7	6791.5	5995.6
35°	6961.3	6935.3	6854.4	6664.0	6521.5	6459.9	6505.2	7180.5	8017.5	7498.2	6547.7
37.5°	7568.1	7607.8	7525.7	7262.6	7077.7	7055.7	7106.5	7727.0	8814.7	8288.7	7181.8
40°	8177.7	8184.5	8110.5	7895.6	7705.1	7669.5	7796.8	8390.0	9755.8	9233.8	7953.1
42.5°	8807.8	8821.4	8696.9	8498.2	8358.5	8365.3	8510.5	9166.7	10835.0	10347.4	8840.7
45°	9554.4	9574.9	9438.0	9177.7	9050.2	9306.4	9246.2	10037.9	12018.7	11613.1	9859.7
47.5°	10335.1	10366.6	10262.4	10018.6	9859.7	10211.8	9981.6	11003.6	13292.5	12970.5	10978.9
50°	10761.2	10806.3	10907.7	10890.0	10855.7	10796.6	10802.2	12039.2	14606.1	14384.2	12129.5
52.5°	10532.4	10531.0	10900.8	11350.2	11829.6	11865.2	11802.1	13130.9	15833.4	15766.3	13213.1
55°	9485.8	9557.1	10117.3	10987.1	12296.7	13114.4	13300.8	14381.4	17039.0	17116.9	14313.1
57.5°	7743.5	7802.4	8558.5	9770.8	11666.6	13856.9	15432.2	16199.2	18386.8	18751.1	15777.3
60°	5251.9	5323.0	6124.4	7580.4	9970.7	13443.1	17460.7	19442.8	20000.5	20829.1	17832.1
62.5°	3086.1	3150.5	3804.0	4781.9	7020.3	11521.3	18351.1	24057.8	22563.3	23964.5	20966.1
65°	2124.5	2168.4	2486.1	2976.5	4034.1	7759.9	17247.1	27243.8	26506.9	27849.3	24600.2
67.5°	1709.6	1704.1	1956.1	2290.3	2597.1	4001.2	13041.9	26883.7	29975.3	30535.5	26486.3
70°	1408.2	1402.7	1573.9	1850.6	2075.3	2253.3	7103.7	22686.5	29268.4	29495.8	24749.6
72.5°	1178.0	1183.4	1293.1	1498.6	1702.6	1697.2	3121.8	15959.5	23024.8	24597.4	19729.1
75°	994.5	997.2	1069.8	1215.0	1382.1	1367.1	1693.0	8646.1	13384.2	14478.7	10936.4
77.5°	846.6	849.3	895.8	976.6	1095.8	1090.4	1235.6	3735.4	5583.2	5514.9	3740.9
80°	754.8	754.8	776.7	791.8	857.5	832.9	916.5	1794.5	2360.1	2179.4	1493.1
82.5°	591.8	594.5	728.7	723.2	675.3	643.8	643.8	1057.5	1250.6	1156.1	874.0
85°	332.8	331.5	469.9	567.1	594.5	453.5	449.3	591.8	680.7	600.0	423.3
87.5°	142.4	145.2	217.7	252.1	337.0	282.2	278.0	305.5	346.6	299.9	195.9
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°	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5	3865.5
2.5°	3866.9	3831.4	3753.3	3656.0	3568.2	3510.8	3458.7	3383.3	3387.5	3335.4	3297.0
5°	3864.1	3790.2	3609.4	3394.3	3187.5	3038.2	2925.9	2824.5	2799.8	2751.9	2723.1
7.5°	3866.9	3746.4	3442.2	3098.4	2842.3	2653.4	2557.5	2503.9	2491.7	2475.2	2476.5
10°	3876.5	3706.6	3258.7	2821.8	2553.3	2428.7	2405.3	2421.8	2441.0	2446.4	2447.8
12.5°	3898.5	3671.1	3057.4	2575.3	2372.6	2334.2	2373.9	2430.1	2467.0	2484.8	2483.5
15°	3947.7	3643.6	2864.2	2382.0	2272.5	2293.1	2367.0	2446.4	2499.9	2524.5	2525.9
17.5°	4001.2	3603.9	2665.6	2234.2	2198.5	2250.6	2342.3	2435.6	2501.2	2528.6	2534.1
20°	4070.9	3554.7	2457.5	2123.1	2128.7	2187.6	2273.9	2367.0	2439.5	2463.0	2473.8
22.5°	4162.8	3501.2	2275.2	2032.8	2049.3	2094.4	2161.5	2242.3	2305.4	2316.3	2325.9
25°	4286.2	3443.7	2130.1	1950.6	1957.4	1983.5	2028.6	2076.6	2120.4	2108.1	2117.8
27.5°	4451.8	3394.3	2021.8	1875.2	1862.9	1868.5	1891.7	1906.7	1930.1	1895.9	1899.9
30°	4646.4	3340.9	1938.3	1809.5	1775.3	1765.7	1771.2	1779.4	1797.1	1750.5	1743.8
32.5°	4872.3	3276.6	1860.2	1752.0	1704.1	1684.9	1687.6	1709.6	1777.9	1749.2	1734.2
35°	5135.4	3204.0	1777.9	1689.0	1656.0	1628.6	1625.9	1694.5	1898.6	1880.7	1867.0
37.5°	5443.5	3131.3	1695.8	1617.8	1620.5	1590.3	1580.7	1658.8	1921.8	1851.9	1842.3
40°	5835.3	3093.0	1625.9	1542.4	1576.6	1572.6	1553.3	1593.1	1768.5	1641.1	1624.6
42.5°	6320.2	3098.4	1573.9	1461.5	1524.6	1568.4	1538.3	1539.7	1602.7	1506.7	1491.7
45°	6918.8	3162.8	1536.9	1397.3	1465.7	1564.3	1532.8	1510.9	1516.3	1465.7	1457.5
47.5°	7617.4	3295.7	1510.9	1343.8	1409.5	1549.2	1531.4	1502.7	1490.4	1462.9	1456.2
50°	8394.1	3488.8	1491.7	1293.1	1358.9	1524.6	1532.8	1494.4	1480.8	1469.7	1465.7
52.5°	9157.1	3709.5	1462.9	1249.3	1319.2	1494.4	1536.9	1486.2	1471.2	1462.9	1458.8
55°	10007.7	3984.7	1419.1	1212.3	1286.3	1456.2	1536.9	1473.8	1457.5	1458.8	1457.5
57.5°	11156.9	4429.9	1367.1	1180.7	1246.5	1409.5	1510.9	1460.3	1439.7	1441.1	1442.4
60°	12952.8	5214.8	1304.1	1149.2	1197.3	1354.7	1475.2	1430.0	1409.5	1415.0	1416.4
62.5°	15593.8	6366.7	1221.9	1102.7	1145.2	1295.8	1426.0	1391.7	1371.2	1384.8	1384.8
65°	18338.8	7383.2	1120.5	1043.8	1090.4	1231.4	1364.3	1343.8	1323.3	1354.7	1353.3
67.5°	19077.1	7155.8	1019.1	979.4	1035.6	1160.3	1290.3	1279.4	1268.4	1323.3	1320.5
70°	16947.2	5744.9	926.1	913.7	975.3	1083.5	1210.8	1210.8	1204.1	1245.1	1235.6
72.5°	12911.7	4073.8	837.0	843.8	906.7	1000.0	1124.6	1134.2	1123.2	1143.8	1135.5
75°	6912.0	2331.5	747.8	767.2	821.9	915.1	1028.6	1038.4	1031.4	1030.0	1034.2
77.5°	2297.1	1139.7	654.8	684.9	732.8	827.3	928.7	943.8	927.3	924.6	923.3
80°	1023.2	716.4	552.0	591.8	634.3	727.4	823.2	835.6	817.7	842.4	810.9
82.5°	657.5	471.3	442.4	486.3	527.3	627.3	717.7	720.5	704.1	817.7	697.3
85°	319.2	291.8	332.8	372.5	408.2	493.1	594.5	595.8	554.8	505.4	487.6
87.5°	158.9	169.9	221.9	257.5	275.3	338.3	432.9	424.5	406.8	369.8	341.0
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)