

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: P269339

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269339
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-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20493.3 lumens
Efficiency: N/A
Efficacy: 97.6 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): 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

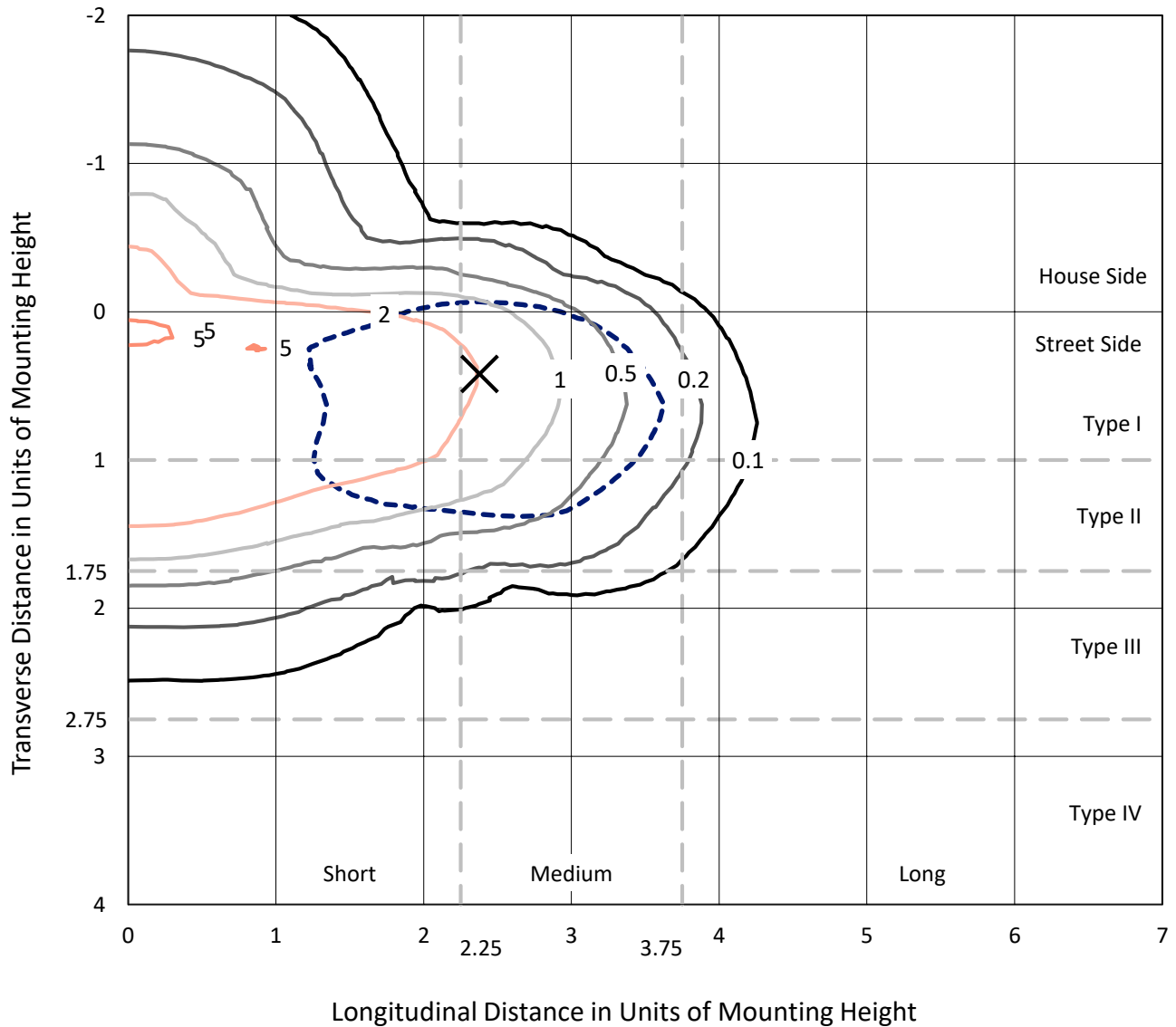


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Iso-Footcandle Lines of Horizontal Illumination

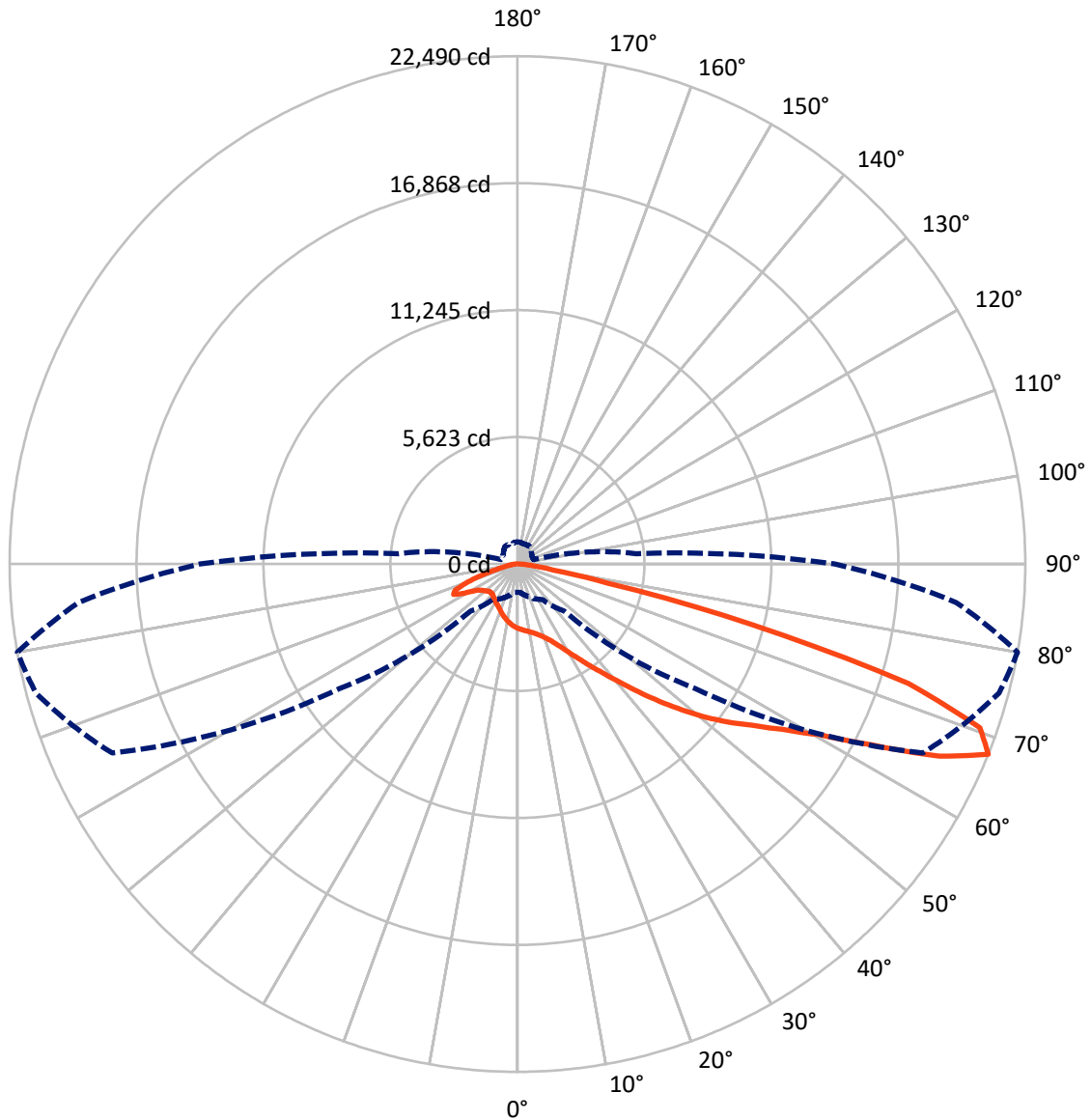
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	3774.1	0.0	3774.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16719.2	0.0	16719.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	20493.3	0.0	20493.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	1.3
10°-20°	756.6	3.7
20°-30°	1252.3	6.1
30°-40°	2048.4	10.0
40°-50°	3307.4	16.1
50°-60°	4774.9	23.3
60°-70°	5269.4	25.7
70°-80°	2428.9	11.9
80°-90°	392.9	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°	20493.3	100.0
0°-180°	20493.3	100.0



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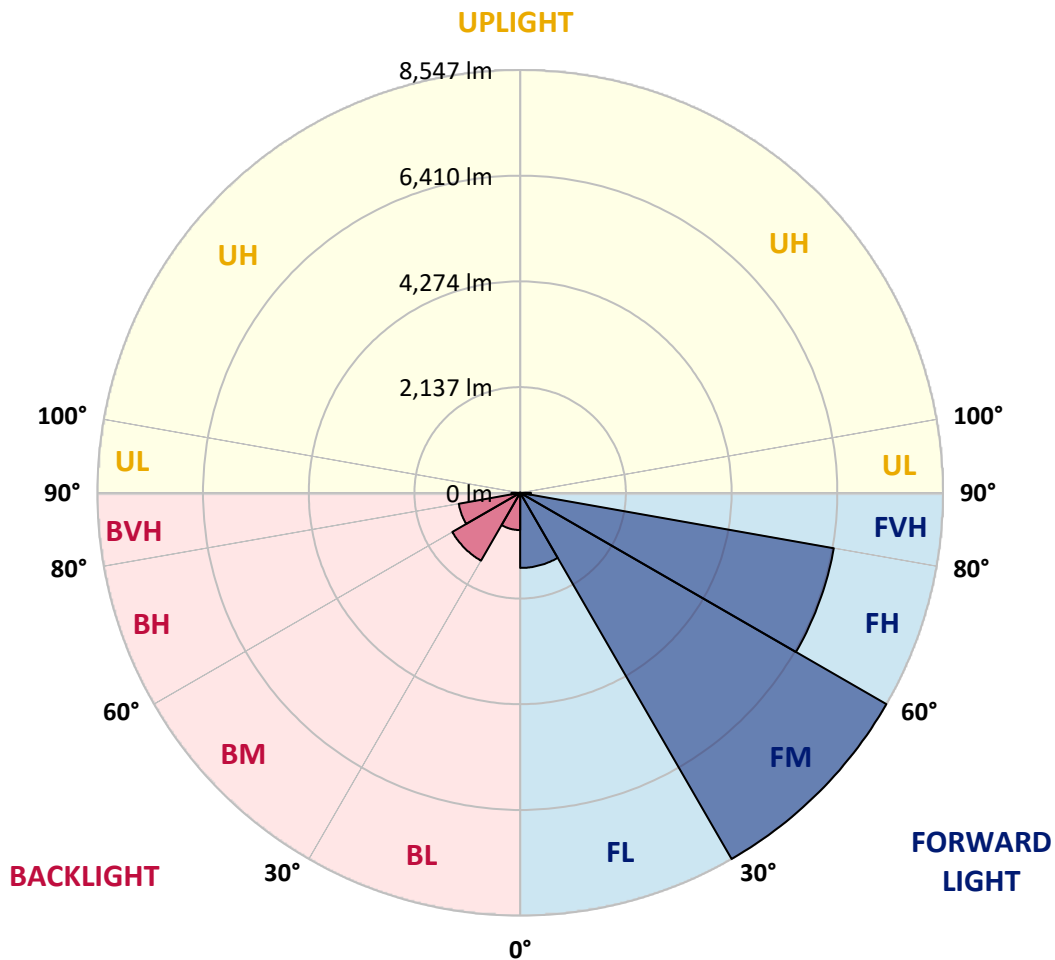
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.5	7.4			
FM (30°-60°)	8547.2	41.7			
FH (60°-80°)	6437.5	31.4			G3/7500
FVH (80°-90°)	216.0	1.1			G2/225
BL (0°-30°)	753.0	3.7	B2/1000		
BM (30°-60°)	1583.5	7.7	B2/2500		
BH (60°-80°)	1260.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	176.9	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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	3114.5	3096.3	3099.3	3094.3	3079.2	3052.9	3024.8	2973.2	2919.9	2891.6	2869.4
5°	3374.8	3369.7	3362.6	3346.5	3308.2	3253.8	3186.1	3095.3	2997.5	2946.0	2896.6
7.5°	3569.4	3566.5	3557.4	3547.2	3509.9	3444.5	3342.6	3213.3	3071.0	3000.5	2923.9
10°	3585.7	3590.6	3597.7	3625.0	3630.1	3594.7	3490.9	3334.4	3147.8	3057.0	2959.0
12.5°	3448.5	3459.6	3486.9	3556.4	3630.1	3673.3	3619.9	3461.6	3237.6	3127.5	3003.6
15°	3266.9	3272.9	3306.2	3402.1	3534.2	3668.4	3718.9	3601.8	3353.6	3218.4	3070.0
17.5°	3189.2	3192.1	3215.4	3279.0	3402.1	3593.7	3774.3	3754.1	3495.8	3331.4	3151.9
20°	3149.7	3156.9	3190.2	3252.8	3330.3	3497.9	3782.4	3918.5	3665.4	3472.7	3254.6
22.5°	3261.7	3258.7	3270.9	3302.1	3367.7	3468.5	3776.4	4088.0	3881.2	3654.2	3388.9
25°	3523.2	3534.2	3513.0	3477.7	3498.9	3569.4	3808.6	4271.7	4151.6	3887.2	3564.5
27.5°	3895.4	3884.4	3853.0	3770.2	3726.9	3757.2	3915.5	4469.4	4487.7	4193.9	3796.4
30°	4266.6	4257.5	4227.3	4126.5	4037.6	4012.4	4123.4	4696.3	4888.1	4562.2	4081.0
32.5°	4652.1	4641.9	4613.8	4512.8	4405.8	4347.3	4419.0	4958.7	5360.2	5002.1	4416.0
35°	5127.3	5108.0	5048.6	4908.2	4803.3	4758.1	4791.3	5288.6	5905.1	5522.7	4822.6
37.5°	5574.3	5603.4	5542.9	5349.1	5213.0	5196.9	5234.2	5691.2	6492.3	6104.8	5289.7
40°	6023.1	6028.2	5973.6	5815.3	5675.0	5648.8	5742.7	6179.5	7185.5	6801.0	5857.7
42.5°	6487.2	6497.4	6405.5	6259.2	6156.4	6161.4	6268.4	6751.7	7980.5	7621.2	6511.5
45°	7037.1	7052.2	6951.4	6759.7	6665.9	6854.4	6810.1	7393.2	8852.1	8553.5	7262.1
47.5°	7612.1	7635.4	7558.7	7379.0	7262.1	7521.4	7351.9	8104.5	9790.4	9553.3	8086.4
50°	7925.9	7959.3	8033.9	8020.7	7995.5	7952.2	7956.2	8867.2	10757.9	10594.5	8933.9
52.5°	7757.5	7756.4	8028.8	8359.7	8712.9	8739.2	8692.7	9671.3	11661.8	11612.5	9731.9
55°	6986.7	7039.1	7451.7	8092.4	9056.9	9659.3	9796.5	10592.5	12549.7	12607.3	10542.0
57.5°	5703.2	5746.6	6303.6	7196.5	8592.7	10206.1	11366.3	11931.3	13542.5	13810.8	11620.6
60°	3868.1	3920.7	4510.7	5583.2	7343.9	9901.4	12860.5	14320.3	14730.9	15341.3	13133.8
62.5°	2273.0	2320.5	2801.8	3522.1	5170.6	8485.8	13516.3	17719.3	16618.6	17650.7	15442.3
65°	1564.8	1597.0	1831.1	2192.4	2971.2	5715.5	12703.1	20066.0	19523.3	20512.0	18118.9
67.5°	1259.2	1255.1	1440.7	1686.8	1912.9	2947.0	9605.8	19800.7	22077.9	22490.4	19508.1
70°	1037.2	1033.1	1159.3	1363.0	1528.5	1659.7	5232.2	16709.5	21557.2	21724.7	18228.9
72.5°	867.7	871.6	952.5	1103.7	1254.0	1250.0	2299.3	11754.7	16958.7	18116.8	14531.3
75°	732.5	734.5	788.0	894.9	1018.0	1006.9	1246.9	6368.2	9858.0	10664.0	8055.1
77.5°	623.6	625.5	659.9	719.4	807.0	803.1	910.1	2751.2	4112.4	4061.9	2755.3
80°	556.0	556.0	572.0	583.1	631.6	613.5	674.9	1321.6	1738.3	1605.1	1099.7
82.5°	435.9	437.8	536.7	532.8	497.4	474.1	474.1	778.9	921.1	851.6	643.6
85°	245.1	244.2	346.0	417.7	437.8	333.9	330.9	435.9	501.4	441.8	311.7
87.5°	104.9	107.0	160.3	185.6	248.2	207.9	204.9	224.9	255.3	221.0	144.3
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°	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1	2847.1
2.5°	2848.2	2821.8	2764.4	2692.8	2628.3	2585.9	2547.5	2492.0	2495.0	2456.7	2428.4
5°	2846.1	2791.7	2658.4	2500.1	2347.7	2237.8	2155.0	2080.4	2062.1	2026.8	2005.6
7.5°	2848.2	2759.4	2535.3	2282.1	2093.5	1954.3	1883.7	1844.3	1835.1	1823.1	1824.1
10°	2855.3	2730.0	2400.2	2078.4	1880.6	1788.7	1771.6	1783.8	1797.9	1801.9	1802.9
12.5°	2871.3	2703.9	2252.0	1896.7	1747.5	1719.1	1748.5	1789.9	1817.0	1830.1	1829.2
15°	2907.6	2683.6	2109.6	1754.5	1673.7	1689.0	1743.4	1801.9	1841.3	1859.4	1860.4
17.5°	2947.0	2654.4	1963.3	1645.5	1619.3	1657.6	1725.3	1793.8	1842.2	1862.5	1866.5
20°	2998.5	2618.1	1809.9	1563.8	1567.8	1611.2	1674.8	1743.4	1796.9	1813.9	1822.1
22.5°	3066.1	2578.8	1675.8	1497.2	1509.3	1542.6	1592.1	1651.5	1697.9	1706.1	1713.1
25°	3156.9	2536.4	1568.8	1436.7	1441.7	1461.0	1494.2	1529.5	1561.8	1552.7	1559.7
27.5°	3279.0	2500.1	1489.1	1381.1	1372.2	1376.2	1393.4	1404.4	1421.6	1396.3	1399.3
30°	3422.3	2460.6	1427.5	1332.7	1307.6	1300.4	1304.5	1310.5	1323.7	1289.3	1284.3
32.5°	3588.6	2413.2	1370.0	1290.3	1255.1	1241.0	1243.0	1259.2	1309.5	1288.3	1277.3
35°	3782.4	2359.8	1309.5	1244.0	1219.8	1199.5	1197.6	1248.0	1398.3	1385.2	1375.1
37.5°	4009.3	2306.4	1249.1	1191.5	1193.5	1171.3	1164.3	1221.8	1415.5	1364.0	1357.0
40°	4297.9	2278.1	1197.6	1136.0	1161.2	1158.3	1144.1	1173.4	1302.5	1208.7	1196.5
42.5°	4655.0	2282.1	1159.3	1076.4	1122.9	1155.2	1133.0	1134.0	1180.5	1109.8	1098.6
45°	5095.9	2329.6	1132.0	1029.1	1079.6	1152.2	1129.0	1112.8	1116.9	1079.6	1073.5
47.5°	5610.5	2427.4	1112.8	989.8	1038.1	1141.0	1127.9	1106.7	1097.6	1077.4	1072.4
50°	6182.6	2569.7	1098.6	952.5	1000.8	1122.9	1129.0	1100.8	1090.6	1082.5	1079.6
52.5°	6744.6	2732.1	1077.4	920.1	971.5	1100.8	1132.0	1094.7	1083.5	1077.4	1074.6
55°	7371.0	2934.9	1045.2	892.8	947.4	1072.4	1132.0	1085.6	1073.5	1074.6	1073.5
57.5°	8217.4	3262.7	1006.9	869.6	918.1	1038.1	1112.8	1075.5	1060.4	1061.3	1062.3
60°	9540.2	3841.0	960.5	846.5	881.7	997.7	1086.6	1053.4	1038.1	1042.3	1043.2
62.5°	11485.3	4689.4	899.9	812.2	843.5	954.4	1050.3	1025.1	1010.0	1019.9	1019.9
65°	13507.2	5438.0	825.4	768.8	803.1	907.0	1004.8	989.8	974.7	997.7	996.8
67.5°	14051.0	5270.4	750.7	721.3	762.8	854.6	950.3	942.3	934.2	974.7	972.5
70°	12482.0	4231.3	682.1	672.9	718.4	798.1	891.8	891.8	886.8	917.1	910.1
72.5°	9509.8	3000.5	616.4	621.4	667.9	736.5	828.2	835.3	827.2	842.4	836.4
75°	5091.0	1717.1	550.9	564.9	605.4	674.0	757.7	764.7	759.6	758.7	761.8
77.5°	1692.0	839.3	482.3	504.5	539.7	609.4	684.0	695.1	683.0	681.0	679.9
80°	753.7	527.7	406.7	435.9	467.1	535.7	606.4	615.3	602.4	620.5	597.3
82.5°	484.2	347.0	325.8	358.2	388.4	462.1	528.7	530.7	518.6	602.4	513.6
85°	235.0	215.0	245.1	274.4	300.7	363.3	437.8	438.9	408.5	372.3	359.1
87.5°	117.0	125.1	163.4	189.7	202.7	249.2	318.8	312.8	299.7	272.4	251.3
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)