

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: P299013

Luminaire Tested: **GLNA-AF-07-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299013
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: GLNA-AF-07-LED-E1-T2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22135.5 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 226
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



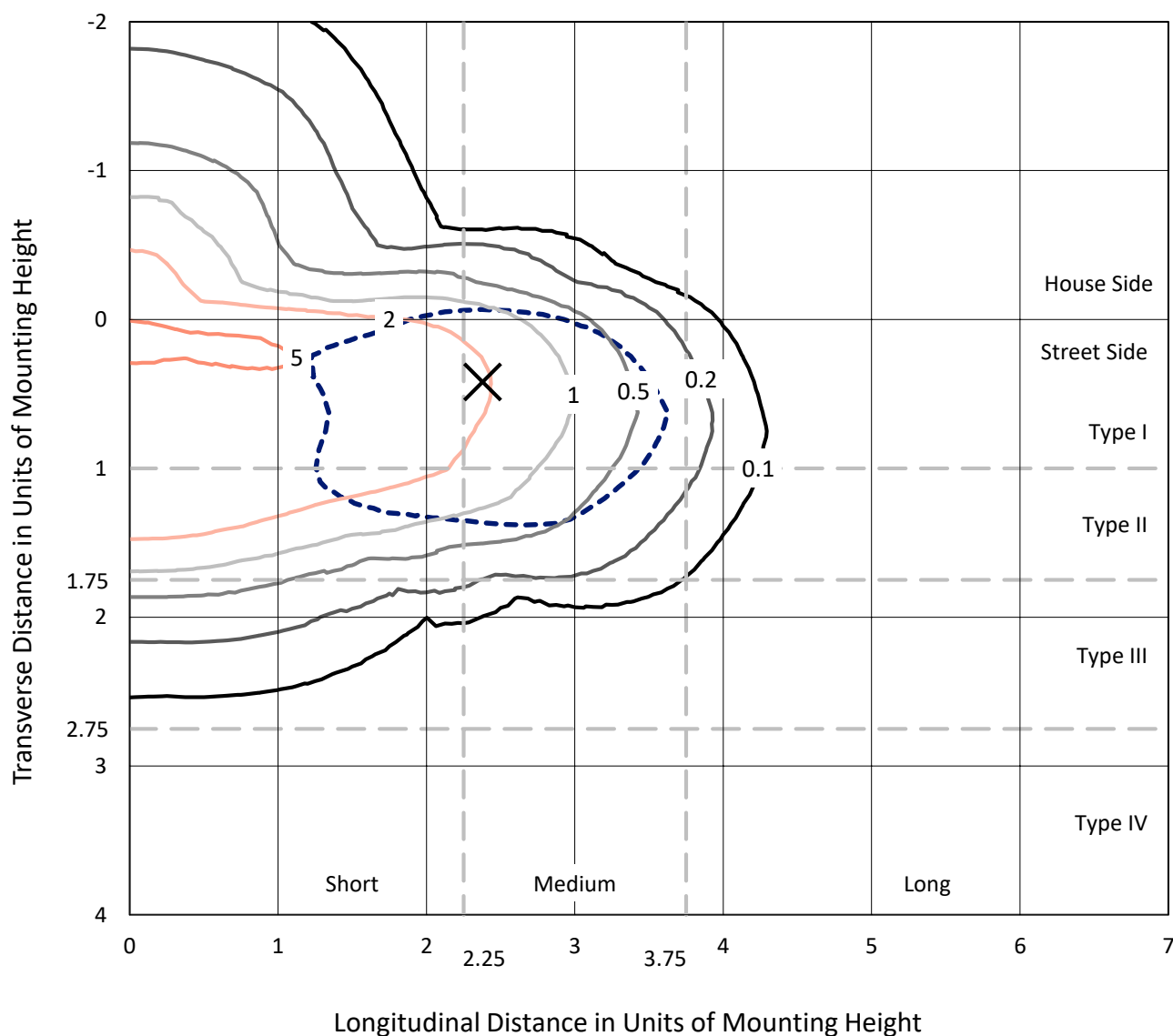
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

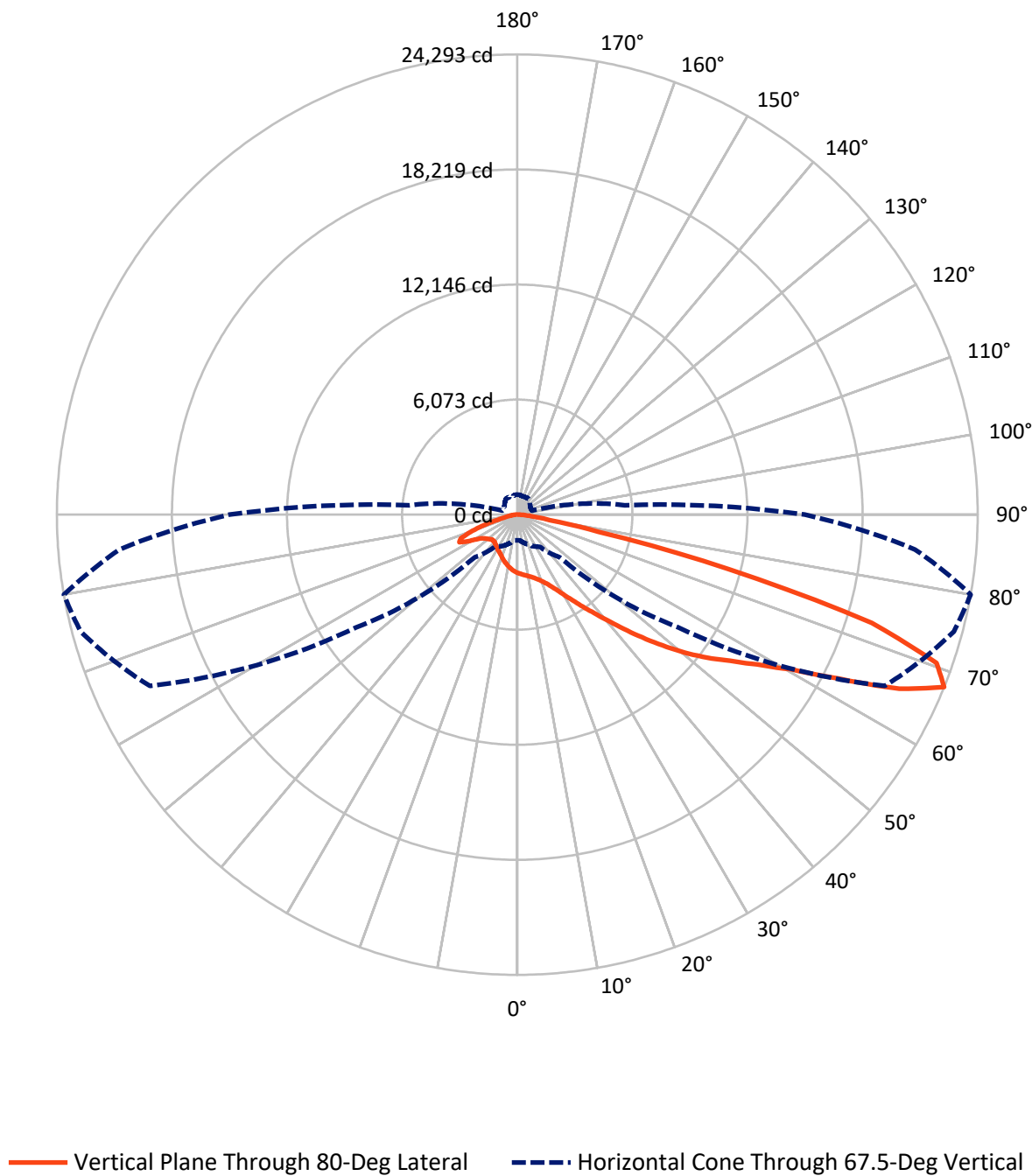


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4076.5	0.0	4076.5
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18059.0	0.0	18059.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	22135.5	0.0	22135.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.3
10°-20°	817.2	3.7
20°-30°	1352.6	6.1
30°-40°	2212.6	10.0
40°-50°	3572.4	16.1
50°-60°	5157.5	23.3
60°-70°	5691.6	25.7
70°-80°	2623.5	11.9
80°-90°	424.3	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°	22135.5	100.0
0°-180°	22135.5	100.0

Coefficient of Utilization



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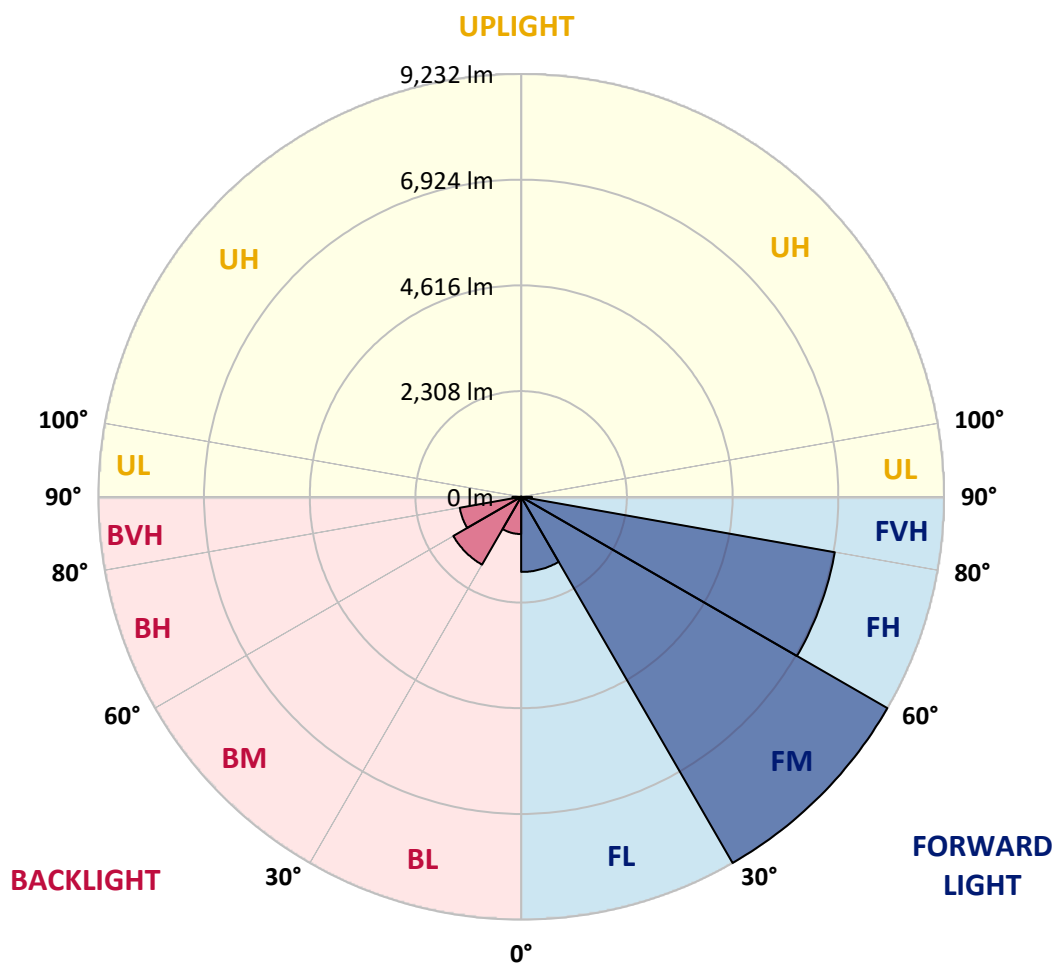
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.2	7.4			
FM	(30°-60°)	9232.2	41.7			
FH	(60°-80°)	6953.3	31.4			G3/7500
FVH	(80°-90°)	233.3	1.1			G3/500
BL	(0°-30°)	813.3	3.7	B2/1000		
BM	(30°-60°)	1710.4	7.7	B2/2500		
BH	(60°-80°)	1361.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	191.0	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°	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3
2.5°	3364.0	3344.4	3347.7	3342.3	3325.9	3297.6	3267.1	3211.5	3153.7	3123.2	3099.2
5°	3645.2	3639.8	3632.1	3614.7	3573.3	3514.4	3441.4	3343.3	3237.6	3182.1	3128.7
7.5°	3855.5	3852.3	3842.4	3831.5	3791.2	3720.4	3610.3	3470.8	3317.2	3240.9	3158.1
10°	3873.0	3878.4	3886.0	3915.5	3920.9	3882.8	3770.5	3601.6	3400.0	3301.9	3196.2
12.5°	3724.8	3736.7	3766.2	3841.4	3920.9	3967.8	3910.0	3738.9	3497.0	3378.2	3244.2
15°	3528.6	3535.1	3571.1	3674.6	3817.4	3962.3	4016.8	3890.4	3622.3	3476.3	3316.1
17.5°	3444.7	3448.0	3473.0	3541.7	3674.6	3881.7	4076.7	4054.9	3776.0	3598.3	3404.4
20°	3402.2	3409.8	3445.8	3513.3	3597.3	3778.2	4085.5	4232.6	3959.0	3750.9	3515.5
22.5°	3523.1	3519.9	3533.0	3566.7	3637.6	3746.5	4078.9	4415.7	4192.3	3947.1	3660.5
25°	3805.4	3817.4	3794.5	3756.4	3779.2	3855.5	4113.8	4614.0	4484.3	4198.8	3850.1
27.5°	4207.5	4195.5	4161.7	4072.4	4025.5	4058.2	4229.3	4827.6	4847.2	4530.1	4100.7
30°	4608.5	4598.7	4566.0	4457.1	4361.2	4333.9	4453.8	5072.8	5279.8	4927.8	4408.0
32.5°	5024.8	5013.9	4983.4	4874.4	4758.9	4695.7	4773.1	5356.1	5789.8	5403.0	4769.8
35°	5538.1	5517.4	5453.1	5301.6	5188.3	5139.2	5175.2	5712.4	6378.3	5965.3	5209.0
37.5°	6020.8	6052.5	5987.1	5777.8	5630.7	5613.3	5653.6	6147.3	7012.5	6594.1	5713.5
40°	6505.8	6511.2	6452.4	6281.3	6129.8	6101.5	6202.8	6674.7	7761.2	7346.0	6327.1
42.5°	7007.1	7018.0	6918.8	6760.8	6649.6	6655.1	6770.6	7292.6	8619.9	8231.9	7033.2
45°	7601.0	7617.3	7508.4	7301.3	7200.0	7403.7	7355.8	7985.7	9561.4	9238.9	7844.0
47.5°	8222.1	8247.2	8164.4	7970.4	7844.0	8124.1	7941.0	8753.9	10574.9	10318.8	8734.3
50°	8561.0	8597.0	8677.6	8663.5	8636.2	8589.4	8593.7	9577.8	11620.0	11443.4	9649.7
52.5°	8379.1	8378.0	8672.2	9029.6	9411.0	9439.4	9389.3	10446.3	12596.4	12543.0	10511.7
55°	7546.5	7603.2	8048.9	8740.9	9782.7	10433.2	10581.4	11441.2	13555.4	13617.5	11386.8
57.5°	6160.3	6207.2	6808.7	7773.2	9281.4	11023.9	12277.1	12887.3	14627.7	14917.5	12551.7
60°	4178.1	4234.8	4872.3	6030.7	7932.3	10694.8	13891.0	15467.9	15911.4	16570.7	14186.3
62.5°	2455.2	2506.4	3026.2	3804.3	5584.9	9165.9	14599.3	19139.2	17950.3	19065.1	16679.7
65°	1690.2	1725.1	1977.9	2368.0	3209.3	6173.4	13721.0	21674.0	21087.7	22155.6	19570.8
67.5°	1360.0	1355.6	1556.2	1822.1	2066.2	3183.1	10375.5	21387.4	23846.9	24292.6	21071.3
70°	1120.3	1115.9	1252.1	1472.2	1651.0	1792.6	5651.4	18048.4	23284.6	23465.5	19689.5
72.5°	937.2	941.5	1028.7	1192.2	1354.6	1350.2	2483.5	12696.6	18317.5	19568.6	15695.6
75°	791.2	793.3	851.1	966.6	1099.6	1087.6	1346.9	6878.5	10647.9	11518.6	8700.5
77.5°	673.5	675.6	712.7	777.0	871.8	867.4	983.0	2971.7	4441.8	4387.3	2976.1
80°	600.5	600.5	617.9	629.9	682.2	662.6	729.0	1427.6	1877.6	1733.8	1187.8
82.5°	470.8	472.9	579.7	575.4	537.2	512.2	512.2	841.3	994.9	919.7	695.3
85°	264.8	263.7	373.8	451.2	472.9	360.7	357.4	470.8	541.6	477.3	336.7
87.5°	113.3	115.5	173.3	200.5	268.1	224.5	221.2	243.0	275.7	238.7	155.8
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°	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3	3075.3
2.5°	3076.4	3048.0	2985.9	2908.5	2838.8	2793.0	2751.6	2691.7	2694.9	2653.5	2623.0
5°	3074.2	3015.3	2871.5	2700.4	2535.8	2417.1	2327.7	2247.1	2227.4	2189.3	2166.4
7.5°	3076.4	2980.5	2738.5	2465.0	2261.2	2110.8	2034.6	1992.1	1982.2	1969.2	1970.3
10°	3084.0	2948.9	2592.5	2244.9	2031.3	1932.1	1913.6	1926.7	1941.9	1946.3	1947.4
12.5°	3101.4	2920.5	2432.3	2048.7	1887.4	1856.9	1888.5	1933.2	1962.6	1976.8	1975.7
15°	3140.6	2898.7	2278.7	1895.1	1807.9	1824.2	1883.1	1946.3	1988.8	2008.4	2009.5
17.5°	3183.1	2867.1	2120.6	1777.4	1749.0	1790.5	1863.5	1937.6	1989.9	2011.7	2016.0
20°	3238.7	2827.9	1955.0	1689.1	1693.5	1740.3	1809.0	1883.1	1940.8	1959.4	1968.1
22.5°	3311.7	2785.4	1810.1	1617.2	1630.3	1666.2	1719.6	1783.9	1834.0	1842.8	1850.4
25°	3409.8	2739.6	1694.6	1551.8	1557.2	1578.0	1613.9	1652.1	1686.9	1677.1	1684.7
27.5°	3541.7	2700.4	1608.5	1491.9	1482.1	1486.4	1504.9	1516.9	1535.5	1508.2	1511.5
30°	3696.4	2657.9	1542.0	1439.6	1412.3	1404.7	1409.0	1415.6	1429.7	1392.7	1387.2
32.5°	3876.2	2606.7	1479.9	1393.8	1355.6	1340.4	1342.6	1360.0	1414.5	1391.6	1379.6
35°	4085.5	2548.9	1414.5	1343.7	1317.5	1295.7	1293.5	1348.0	1510.4	1496.2	1485.3
37.5°	4330.7	2491.2	1349.1	1287.0	1289.2	1265.2	1257.6	1319.7	1528.9	1473.3	1465.7
40°	4642.3	2460.6	1293.5	1227.1	1254.3	1251.0	1235.8	1267.4	1406.9	1305.5	1292.4
42.5°	5028.1	2465.0	1252.1	1162.8	1212.9	1247.8	1223.8	1224.9	1275.0	1198.7	1186.7
45°	5504.3	2516.2	1222.7	1111.5	1166.0	1244.5	1219.4	1202.0	1206.3	1166.0	1159.5
47.5°	6060.1	2621.9	1202.0	1069.0	1121.3	1232.5	1218.3	1195.5	1185.6	1163.8	1158.4
50°	6678.0	2775.6	1186.7	1028.7	1081.0	1212.9	1219.4	1188.9	1178.0	1169.3	1166.0
52.5°	7285.0	2951.0	1163.8	993.8	1049.4	1188.9	1222.7	1182.4	1170.4	1163.8	1160.6
55°	7961.7	3170.1	1129.0	964.4	1023.3	1158.4	1222.7	1172.6	1159.5	1160.6	1159.5
57.5°	8876.0	3524.2	1087.6	939.4	991.7	1121.3	1202.0	1161.7	1145.3	1146.4	1147.5
60°	10304.6	4148.7	1037.4	914.3	952.4	1077.8	1173.7	1137.7	1121.3	1125.7	1126.8
62.5°	12405.7	5065.1	972.1	877.2	911.0	1030.9	1134.4	1107.2	1090.8	1101.7	1101.7
65°	14589.5	5873.7	891.4	830.4	867.4	979.7	1085.4	1069.0	1052.7	1077.8	1076.7
67.5°	15176.9	5692.8	810.8	779.2	823.8	923.0	1026.5	1017.8	1009.1	1052.7	1050.5
70°	13482.3	4570.4	736.7	726.9	775.9	862.0	963.3	963.3	957.9	990.6	983.0
72.5°	10271.9	3240.9	665.8	671.3	721.4	795.5	894.7	902.3	893.6	909.9	903.4
75°	5498.9	1854.7	595.0	610.3	653.8	728.0	818.4	826.0	820.6	819.5	822.8
77.5°	1827.5	906.7	520.9	544.9	583.0	658.2	738.8	750.8	737.8	735.6	734.5
80°	814.0	569.9	439.2	470.8	504.6	578.7	654.9	664.7	650.6	670.2	645.1
82.5°	523.1	374.9	352.0	386.9	419.6	499.1	571.0	573.2	560.1	650.6	554.7
85°	253.9	232.1	264.8	296.4	324.7	392.3	472.9	474.0	441.3	402.1	387.9
87.5°	126.4	135.1	176.5	204.9	219.0	269.2	344.4	337.8	323.7	294.2	271.3
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)