

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: P193112

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193112
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-04-LED-E1-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 22789.3 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 225
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



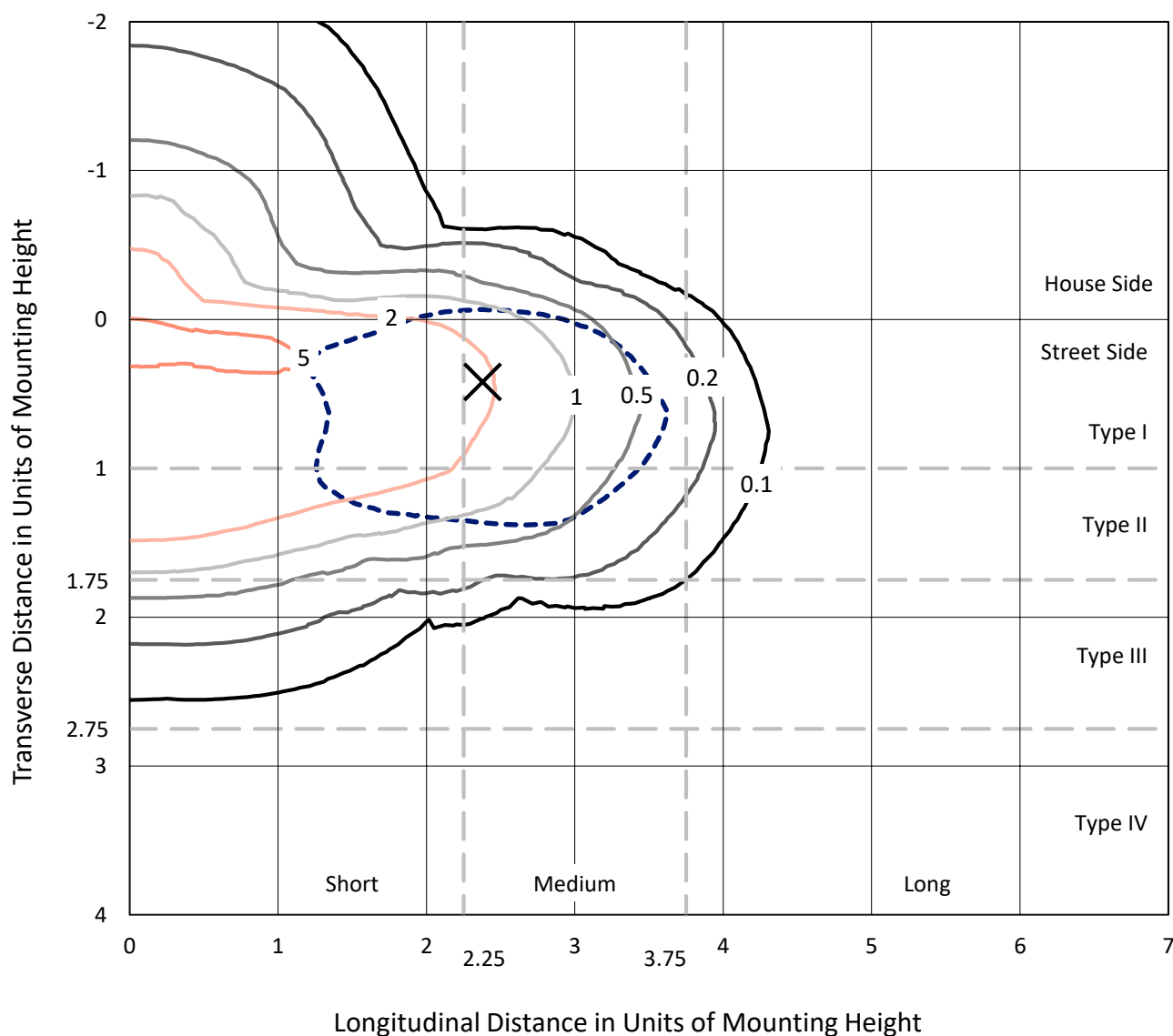
REPORT NUMBER: P193112

CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

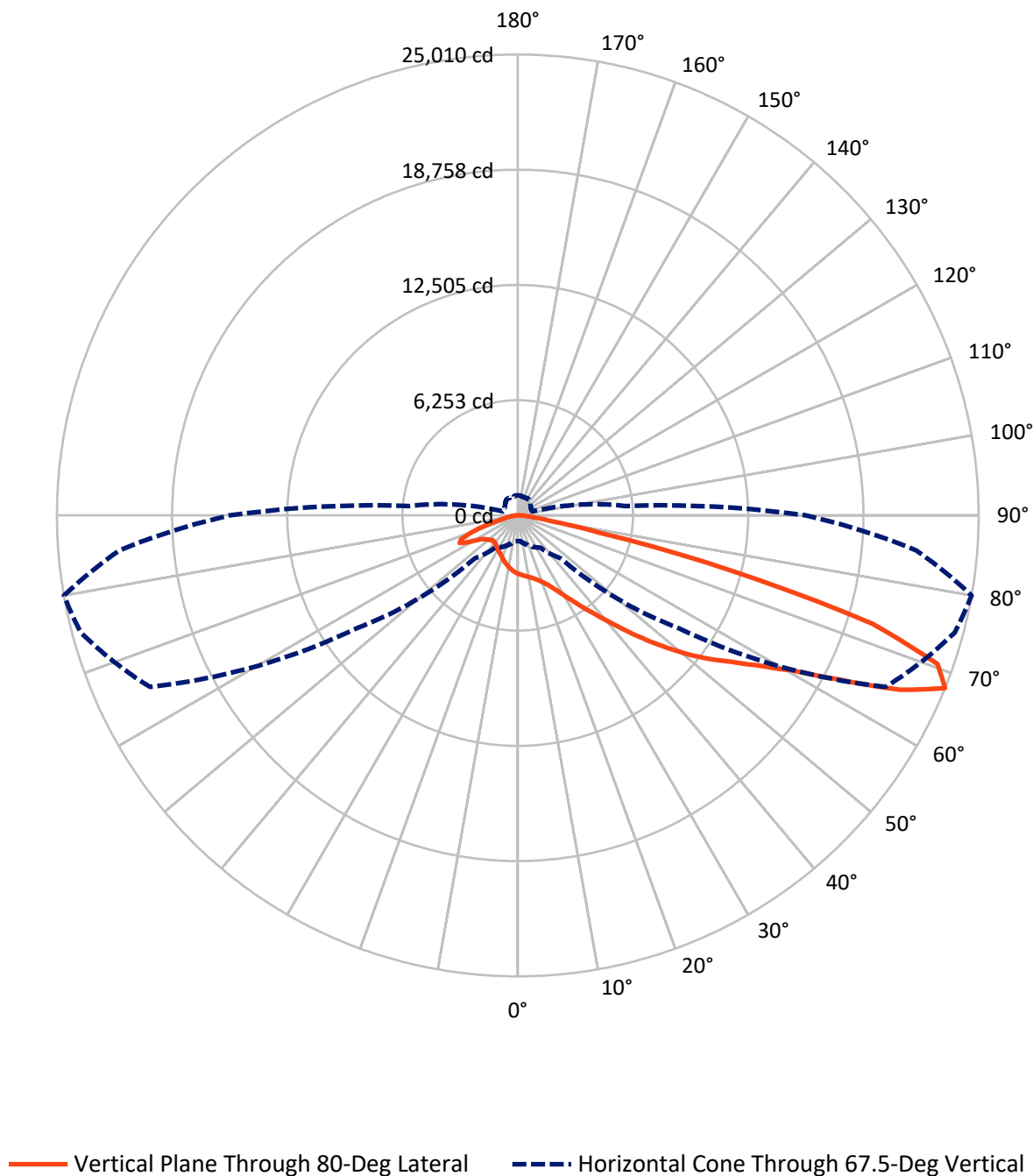


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193112

CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4196.9	0.0	4196.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18592.4	0.0	18592.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	22789.3	0.0	22789.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.3
10°-20°	841.3	3.7
20°-30°	1392.6	6.1
30°-40°	2277.9	10.0
40°-50°	3677.9	16.1
50°-60°	5309.9	23.3
60°-70°	5859.7	25.7
70°-80°	2701.0	11.9
80°-90°	436.9	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°	22789.3	100.0
0°-180°	22789.3	100.0

Coefficient of Utilization



REPORT NUMBER: P193112

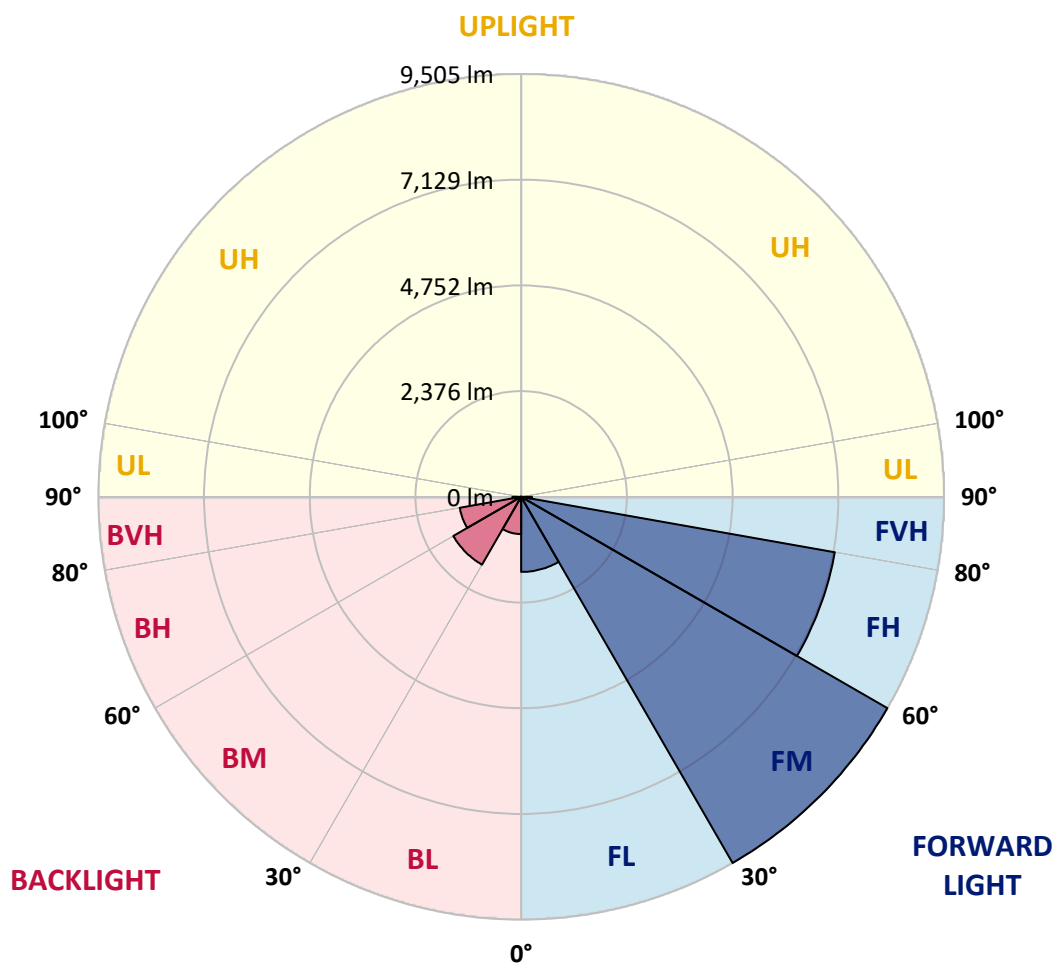
CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1688.6	7.4			
FM	(30°-60°)	9504.8	41.7			
FH	(60°-80°)	7158.7	31.4			G3/7500
FVH	(80°-90°)	240.2	1.1			G3/500
BL	(0°-30°)	837.3	3.7	B2/1000		
BM	(30°-60°)	1760.9	7.7	B2/2500		
BH	(60°-80°)	1402.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	196.7	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



REPORT NUMBER: P193112

CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	3463.4	3443.2	3446.6	3441.0	3424.1	3395.0	3363.5	3306.3	3246.8	3215.5	3190.8
5°	3752.8	3747.3	3739.4	3721.5	3678.9	3618.2	3543.1	3442.1	3333.3	3276.0	3221.1
7.5°	3969.4	3966.0	3956.0	3944.7	3903.2	3830.3	3717.0	3573.4	3415.1	3336.7	3251.3
10°	3987.3	3993.0	4000.8	4031.1	4036.7	3997.5	3881.9	3708.0	3500.4	3399.5	3290.7
12.5°	3834.8	3847.1	3877.4	3954.8	4036.7	4084.9	4025.5	3849.3	3600.3	3477.9	3339.9
15°	3632.9	3639.5	3676.6	3783.2	3930.2	4079.3	4135.5	4005.3	3729.3	3579.0	3414.1
17.5°	3546.4	3549.9	3575.6	3646.3	3783.2	3996.3	4197.2	4174.7	3887.6	3704.7	3504.9
20°	3502.7	3510.5	3547.5	3617.1	3703.5	3889.7	4206.2	4357.6	4076.0	3861.7	3619.3
22.5°	3627.2	3623.8	3637.3	3672.1	3745.0	3857.2	4199.4	4546.1	4316.1	4063.7	3768.6
25°	3917.8	3930.2	3906.6	3867.3	3890.8	3969.4	4235.3	4750.3	4616.8	4322.9	3963.8
27.5°	4331.8	4319.4	4284.7	4192.8	4144.4	4178.1	4354.2	4970.2	4990.3	4663.8	4221.9
30°	4744.7	4734.5	4700.9	4588.7	4490.0	4461.9	4585.4	5222.6	5435.7	5073.4	4538.2
32.5°	5173.2	5162.1	5130.6	5018.4	4899.5	4834.4	4914.1	5514.4	5960.8	5562.5	4910.6
35°	5701.7	5680.4	5614.2	5458.1	5341.5	5291.0	5328.0	5881.2	6566.7	6141.5	5362.9
37.5°	6198.8	6231.2	6163.9	5948.5	5797.1	5779.0	5820.6	6328.9	7219.7	6788.9	5882.3
40°	6697.9	6703.6	6643.0	6466.8	6311.0	6281.8	6386.1	6871.9	7990.4	7562.9	6513.9
42.5°	7214.1	7225.2	7123.1	6960.5	6846.0	6851.6	6970.5	7508.0	8874.5	8475.1	7240.9
45°	7825.4	7842.3	7730.1	7516.9	7412.5	7622.4	7573.1	8221.5	9843.8	9511.8	8075.7
47.5°	8465.0	8490.7	8405.6	8205.8	8075.7	8364.1	8175.6	9012.5	10887.2	10623.6	8992.2
50°	8814.0	8851.0	8933.9	8919.4	8891.3	8843.1	8847.6	9860.6	11963.2	11781.4	9934.7
52.5°	8626.6	8625.5	8928.3	9296.4	9689.0	9718.2	9666.6	10754.8	12968.4	12913.5	10822.1
55°	7769.4	7827.8	8286.6	8999.0	10071.6	10741.4	10894.0	11779.1	13955.6	14019.7	11723.1
57.5°	6342.3	6390.6	7009.8	8002.8	9555.5	11349.6	12639.6	13268.0	15059.7	15358.1	12922.4
60°	4301.5	4359.9	5016.2	6208.7	8166.6	11010.6	14301.3	15924.7	16381.4	17060.1	14605.3
62.5°	2527.7	2580.4	3115.6	3916.6	5749.9	9436.6	15030.6	19704.5	18480.4	19628.2	17172.3
65°	1740.2	1776.0	2036.3	2438.0	3304.1	6355.7	14126.2	22314.1	21710.6	22810.0	20148.8
67.5°	1400.1	1395.7	1602.1	1875.9	2127.2	3277.1	10681.9	22019.0	24551.3	25010.1	21693.8
70°	1153.3	1148.9	1289.1	1515.8	1699.7	1845.6	5818.4	18581.5	23972.3	24158.7	20271.1
72.5°	964.9	969.3	1059.2	1227.4	1394.5	1390.1	2556.8	13071.7	18858.5	20146.6	16159.2
75°	814.5	816.7	876.3	995.2	1132.0	1119.7	1386.7	7081.6	10962.4	11858.8	8957.5
77.5°	693.4	695.6	733.7	799.9	897.6	893.0	1012.0	3059.5	4573.0	4516.9	3063.9
80°	618.2	618.2	636.1	648.5	702.3	682.1	750.6	1469.7	1933.2	1785.0	1222.9
82.5°	484.7	487.0	596.9	592.4	553.1	527.2	527.2	866.1	1024.3	947.0	715.7
85°	272.6	271.5	384.8	464.5	487.0	371.4	367.9	484.7	557.6	491.4	346.7
87.5°	116.7	118.9	178.4	206.4	276.0	231.1	227.8	250.2	283.8	245.8	160.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193112

CATALOG NUMBER: GLEON-AF-04-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	3167.2	3138.0	3074.1	2994.5	2922.6	2875.4	2832.9	2771.2	2774.5	2731.9	2700.5
5°	3165.0	3104.4	2956.3	2780.1	2610.8	2488.5	2396.5	2313.4	2293.3	2254.0	2230.4
7.5°	3167.2	3068.4	2819.4	2537.8	2328.0	2173.1	2094.6	2050.9	2040.8	2027.3	2028.5
10°	3175.1	3036.0	2669.1	2311.2	2091.3	1989.2	1970.2	1983.6	1999.3	2003.9	2004.9
12.5°	3193.0	3006.9	2504.1	2109.2	1943.1	1911.8	1944.3	1990.2	2020.6	2035.2	2034.1
15°	3233.4	2984.3	2346.1	1951.1	1861.3	1878.1	1938.7	2003.9	2047.5	2067.7	2068.9
17.5°	3277.1	2951.8	2183.3	1829.9	1800.7	1843.3	1918.5	1994.7	2048.6	2071.1	2075.6
20°	3334.4	2911.4	2012.8	1739.0	1743.4	1791.8	1862.5	1938.7	1998.2	2017.3	2026.2
22.5°	3409.6	2867.6	1863.5	1665.0	1678.4	1715.5	1770.4	1836.6	1888.2	1897.2	1905.1
25°	3510.5	2820.5	1744.7	1597.6	1603.3	1624.5	1661.7	1700.8	1736.7	1726.7	1734.5
27.5°	3646.3	2780.1	1656.0	1535.9	1525.8	1530.2	1549.4	1561.8	1580.8	1552.8	1556.1
30°	3805.6	2736.4	1587.5	1482.1	1454.0	1446.1	1450.6	1457.4	1471.9	1433.8	1428.2
32.5°	3990.7	2683.6	1523.6	1434.9	1395.7	1380.0	1382.2	1400.1	1456.3	1432.7	1420.4
35°	4206.2	2624.2	1456.3	1383.3	1356.5	1333.9	1331.8	1387.8	1555.0	1540.4	1529.2
37.5°	4458.6	2564.8	1388.9	1325.0	1327.3	1302.6	1294.7	1358.6	1574.1	1516.8	1509.0
40°	4779.4	2533.2	1331.8	1263.2	1291.3	1287.9	1272.4	1304.8	1448.4	1344.1	1330.6
42.5°	5176.6	2537.8	1289.1	1197.2	1248.8	1284.6	1260.0	1261.1	1312.6	1234.1	1221.7
45°	5666.8	2590.5	1258.7	1144.4	1200.4	1281.3	1255.4	1237.5	1242.0	1200.4	1193.7
47.5°	6239.0	2699.4	1237.5	1100.6	1154.5	1268.9	1254.3	1230.8	1220.7	1198.2	1192.6
50°	6875.2	2857.5	1221.7	1059.2	1113.0	1248.8	1255.4	1224.0	1212.8	1203.8	1200.4
52.5°	7500.1	3038.2	1198.2	1023.2	1080.5	1224.0	1258.7	1217.2	1204.9	1198.2	1194.9
55°	8196.8	3263.7	1162.3	992.9	1053.5	1192.6	1258.7	1207.2	1193.7	1194.9	1193.7
57.5°	9138.1	3628.3	1119.7	967.1	1020.9	1154.5	1237.5	1196.0	1179.1	1180.3	1181.4
60°	10609.0	4271.2	1068.1	941.3	980.6	1109.6	1208.3	1171.3	1154.5	1158.9	1160.2
62.5°	12772.1	5214.7	1000.9	903.1	938.0	1061.4	1168.0	1139.9	1123.0	1134.2	1134.2
65°	15020.4	6047.2	917.8	855.0	893.0	1008.6	1117.4	1100.6	1083.8	1109.6	1108.4
67.5°	15625.1	5861.0	834.7	802.2	848.2	950.2	1056.9	1047.9	1038.9	1083.8	1081.5
70°	13880.6	4705.4	758.5	748.3	798.8	887.4	991.7	991.7	986.2	1019.8	1012.0
72.5°	10575.3	3336.7	685.5	691.1	742.8	819.0	921.0	928.9	920.0	936.8	930.2
75°	5661.3	1909.6	612.6	628.2	673.1	749.4	842.6	850.5	844.8	843.7	847.1
77.5°	1881.5	933.4	536.3	560.9	600.3	677.6	760.7	773.0	759.6	757.2	756.2
80°	838.1	586.7	452.2	484.7	519.4	595.8	674.2	684.4	669.8	690.0	664.2
82.5°	538.5	385.9	362.4	398.2	431.9	513.8	588.0	590.1	576.7	669.8	571.1
85°	261.4	239.0	272.6	305.2	334.4	403.9	487.0	488.1	454.4	414.0	399.5
87.5°	130.1	139.1	181.8	210.9	225.5	277.1	354.5	347.8	333.2	302.9	279.3
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)