

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: P298981

Luminaire Tested: **GLNA-AF-02-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298981
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-02-LED-E1-T2-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6816.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

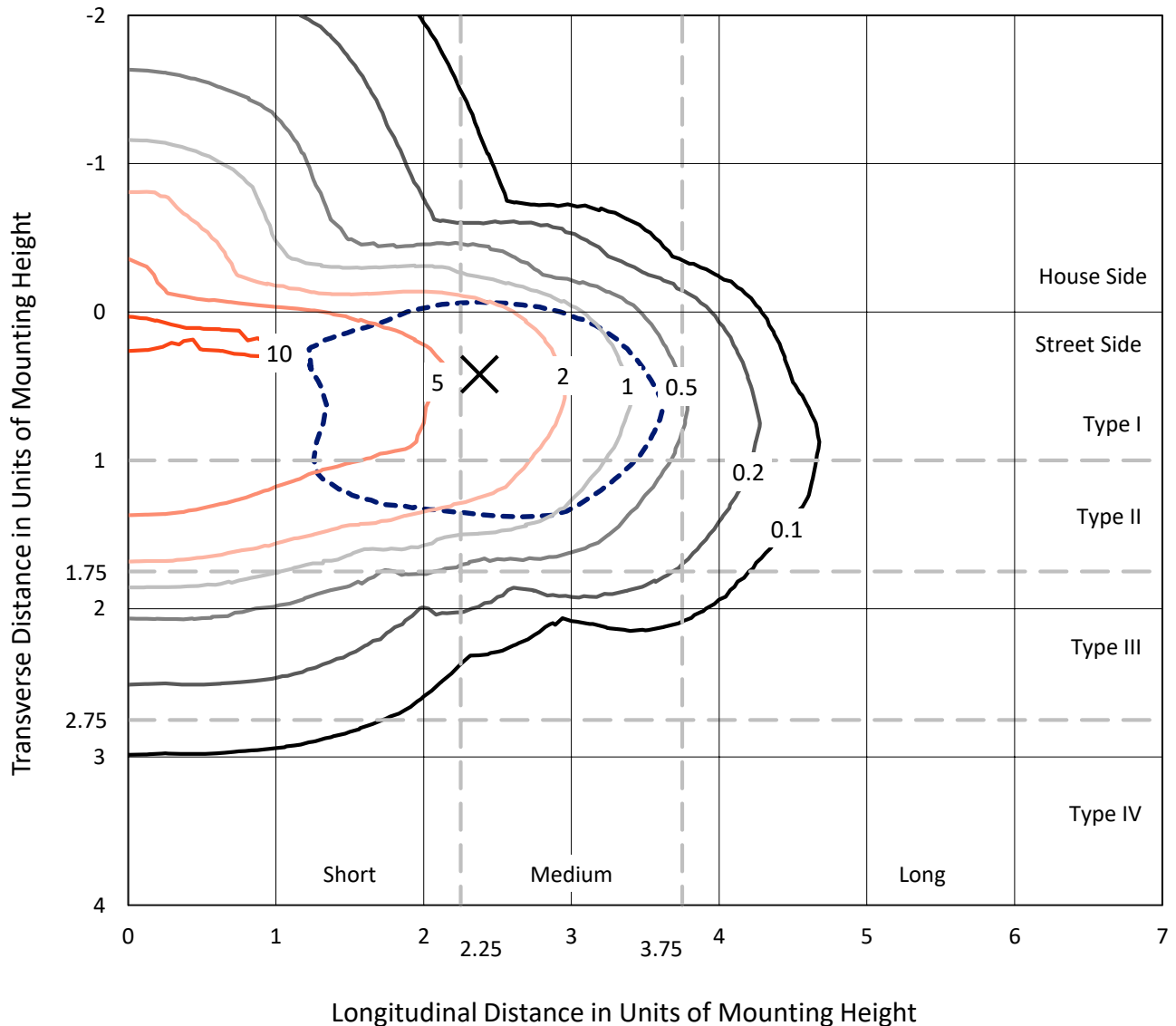


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

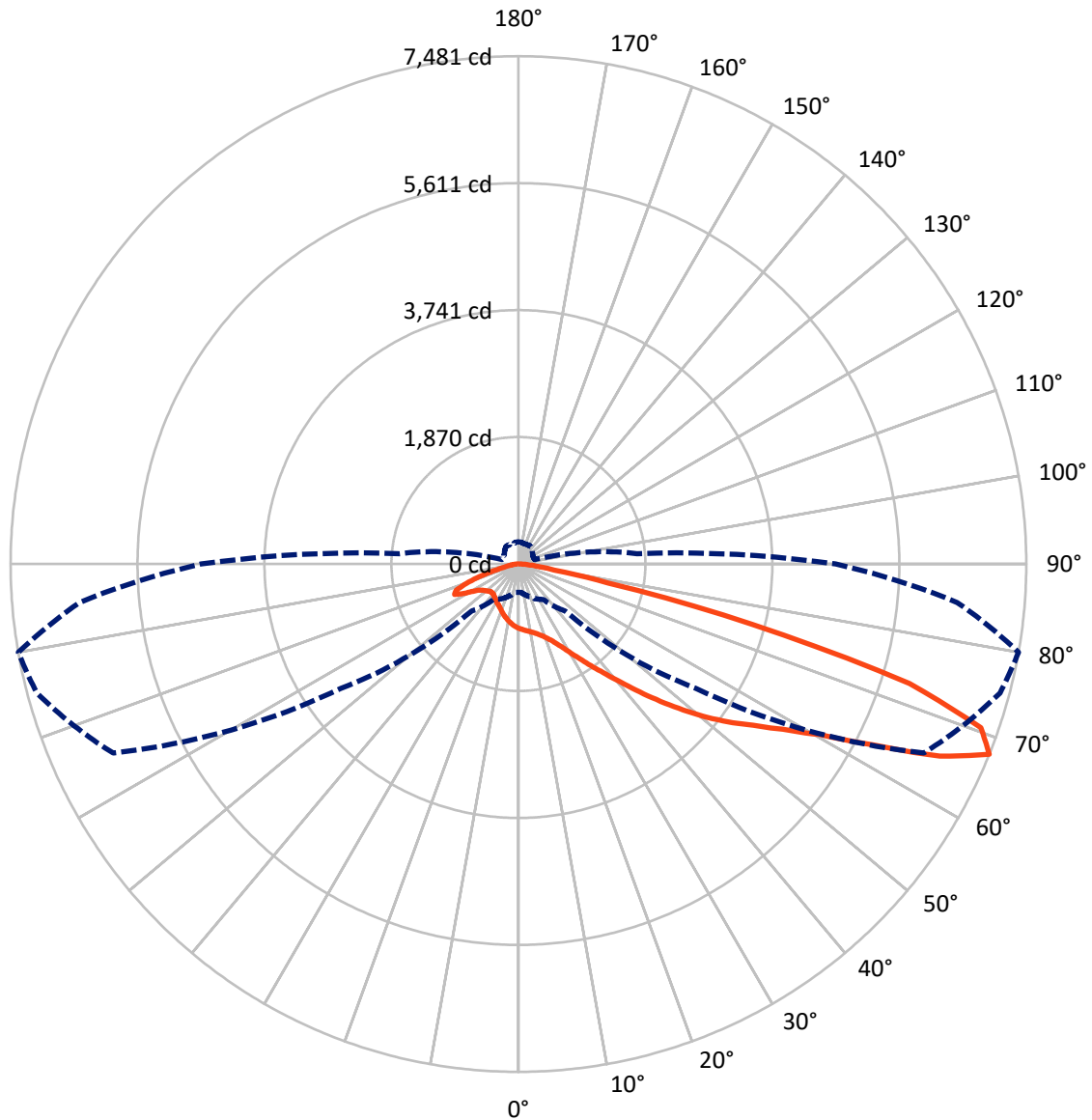


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - Full Cutoff

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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	1255.4	0.0	1255.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5561.4	0.0	5561.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	6816.7	0.0	6816.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.3
10°-20°	251.7	3.7
20°-30°	416.6	6.1
30°-40°	681.4	10.0
40°-50°	1100.1	16.1
50°-60°	1588.3	23.3
60°-70°	1752.8	25.7
70°-80°	807.9	11.9
80°-90°	130.7	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°	6816.7	100.0
0°-180°	6816.7	100.0



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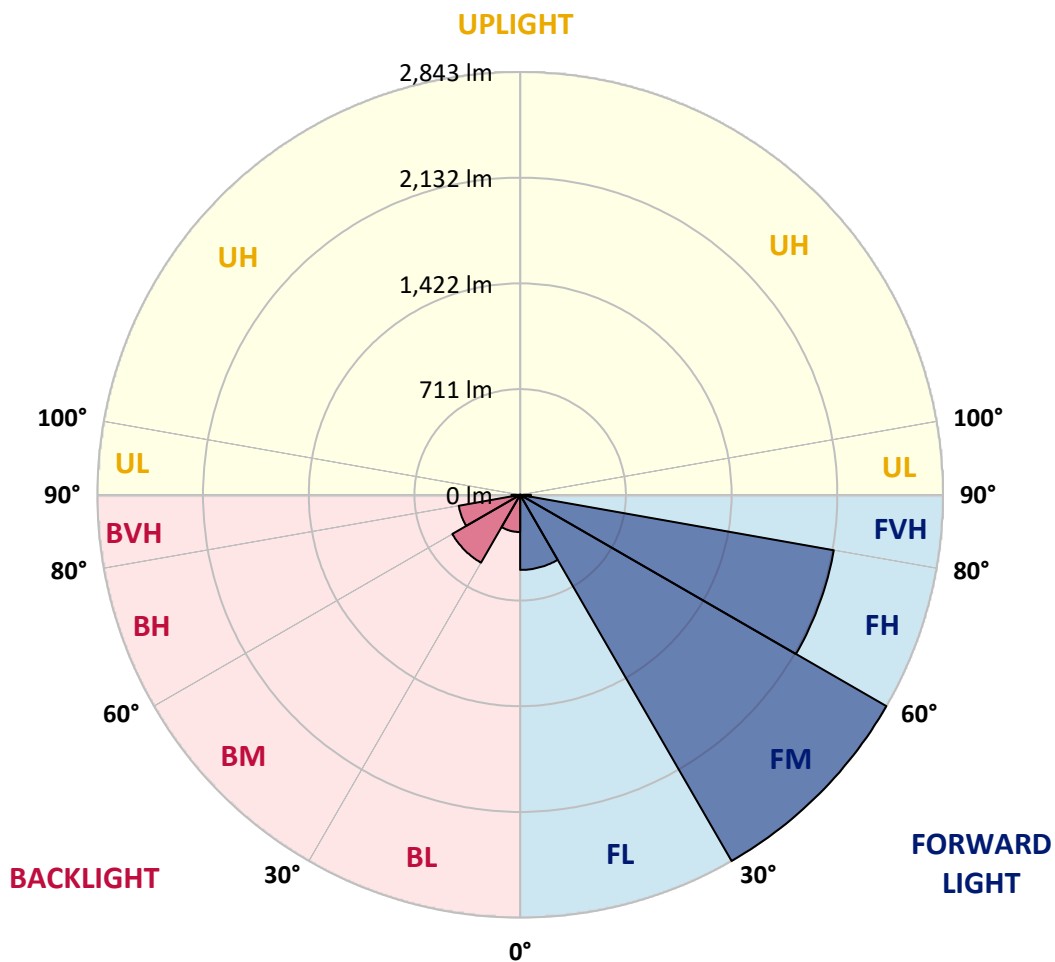
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.1	7.4			
FM	(30°-60°)	2843.1	41.7			
FH	(60°-80°)	2141.3	31.4			G2/5000
FVH	(80°-90°)	71.8	1.1			G1/100
BL	(0°-30°)	250.5	3.7	B1/500		
BM	(30°-60°)	526.7	7.7	B1/1000		
BH	(60°-80°)	419.4	6.2	B1/500		G1/500
BVH	(80°-90°)	58.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0
2.5°	1036.0	1029.9	1030.9	1029.3	1024.2	1015.5	1006.1	989.0	971.2	961.8	954.4
5°	1122.6	1120.9	1118.5	1113.2	1100.4	1082.3	1059.8	1029.6	997.0	979.9	963.5
7.5°	1187.3	1186.3	1183.3	1179.9	1167.5	1145.7	1111.8	1068.9	1021.5	998.1	972.6
10°	1192.7	1194.4	1196.7	1205.8	1207.5	1195.7	1161.2	1109.1	1047.1	1016.8	984.3
12.5°	1147.1	1150.8	1159.8	1183.0	1207.5	1221.9	1204.1	1151.4	1076.9	1040.3	999.1
15°	1086.7	1088.7	1099.7	1131.6	1175.6	1220.2	1237.0	1198.1	1115.5	1070.5	1021.2
17.5°	1060.8	1061.8	1069.5	1090.7	1131.6	1195.4	1255.5	1248.7	1162.8	1108.1	1048.4
20°	1047.7	1050.1	1061.1	1082.0	1107.8	1163.5	1258.1	1303.4	1219.2	1155.1	1082.6
22.5°	1085.0	1084.0	1088.0	1098.4	1120.2	1153.8	1256.1	1359.8	1291.0	1215.5	1127.3
25°	1171.9	1175.6	1168.5	1156.8	1163.8	1187.3	1266.9	1420.9	1381.0	1293.0	1185.7
27.5°	1295.7	1292.0	1281.6	1254.1	1239.7	1249.8	1302.4	1486.7	1492.7	1395.1	1262.8
30°	1419.2	1416.2	1406.1	1372.6	1343.0	1334.7	1371.6	1562.2	1626.0	1517.6	1357.5
32.5°	1547.4	1544.1	1534.7	1501.1	1465.5	1446.1	1469.9	1649.4	1783.0	1663.9	1468.9
35°	1705.5	1699.1	1679.3	1632.7	1597.8	1582.7	1593.7	1759.2	1964.2	1837.0	1604.1
37.5°	1854.2	1863.9	1843.8	1779.3	1734.0	1728.6	1741.1	1893.1	2159.5	2030.7	1759.5
40°	2003.5	2005.2	1987.0	1934.4	1887.7	1879.0	1910.2	2055.5	2390.1	2262.2	1948.5
42.5°	2157.9	2161.2	2130.7	2082.0	2047.8	2049.5	2085.0	2245.8	2654.5	2535.1	2165.9
45°	2340.8	2345.8	2312.2	2248.5	2217.3	2280.0	2265.3	2459.2	2944.5	2845.2	2415.6
47.5°	2532.1	2539.8	2514.3	2454.5	2415.6	2501.9	2445.5	2695.8	3256.6	3177.7	2689.8
50°	2636.4	2647.5	2672.3	2668.0	2659.6	2645.1	2646.5	2949.5	3578.4	3524.1	2971.7
52.5°	2580.4	2580.0	2670.7	2780.7	2898.2	2906.9	2891.5	3217.0	3879.1	3862.7	3237.1
55°	2324.0	2341.4	2478.7	2691.8	3012.6	3213.0	3258.6	3523.4	4174.4	4193.6	3506.6
57.5°	1897.1	1911.5	2096.8	2393.8	2858.3	3394.9	3780.8	3968.7	4504.7	4593.9	3865.4
60°	1286.7	1304.1	1500.4	1857.2	2442.8	3293.5	4277.8	4763.4	4900.0	5103.0	4368.8
62.5°	756.1	771.9	931.9	1171.6	1719.9	2822.7	4495.9	5894.0	5527.9	5871.2	5136.6
65°	520.5	531.2	609.1	729.2	988.3	1901.1	4225.5	6674.6	6494.1	6823.0	6026.9
67.5°	418.8	417.5	479.2	561.1	636.3	980.3	3195.2	6586.4	7343.8	7481.1	6489.0
70°	345.0	343.6	385.6	453.4	508.4	552.1	1740.4	5558.1	7170.6	7226.3	6063.5
72.5°	288.6	290.0	316.8	367.1	417.1	415.8	764.8	3910.0	5641.0	6026.3	4833.6
75°	243.6	244.3	262.1	297.7	338.6	334.9	414.8	2118.3	3279.1	3547.2	2679.4
77.5°	207.4	208.1	219.5	239.3	268.5	267.1	302.7	915.2	1367.9	1351.1	916.5
80°	184.9	184.9	190.3	194.0	210.1	204.0	224.5	439.6	578.2	533.9	365.8
82.5°	145.0	145.6	178.5	177.2	165.4	157.7	157.7	259.1	306.4	283.2	214.1
85°	81.5	81.2	115.1	138.9	145.6	111.1	110.1	145.0	166.8	147.0	103.7
87.5°	34.9	35.6	53.4	61.7	82.6	69.1	68.1	74.8	84.9	73.5	48.0
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°	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0	947.0
2.5°	947.4	938.7	919.5	895.7	874.2	860.1	847.4	828.9	829.9	817.2	807.8
5°	946.7	928.6	884.3	831.6	780.9	744.3	716.8	692.0	686.0	674.2	667.2
7.5°	947.4	917.8	843.3	759.1	696.4	650.0	626.6	613.5	610.4	606.4	606.8
10°	949.7	908.1	798.4	691.3	625.5	595.0	589.3	593.3	598.0	599.4	599.7
12.5°	955.1	899.4	749.0	630.9	581.2	571.9	581.6	595.3	604.4	608.8	608.4
15°	967.2	892.7	701.7	583.6	556.7	561.8	579.9	599.4	612.5	618.5	618.8
17.5°	980.3	882.9	653.1	547.4	538.6	551.4	573.9	596.7	612.8	619.5	620.8
20°	997.4	870.9	602.1	520.2	521.5	535.9	557.1	579.9	597.7	603.4	606.1
22.5°	1019.9	857.8	557.4	498.0	502.0	513.1	529.6	549.4	564.8	567.5	569.8
25°	1050.1	843.7	521.8	477.9	479.6	485.9	497.0	508.8	519.5	516.5	518.8
27.5°	1090.7	831.6	495.3	459.4	456.4	457.7	463.5	467.1	472.9	464.5	465.5
30°	1138.3	818.5	474.9	443.3	434.9	432.6	433.9	435.9	440.3	428.9	427.2
32.5°	1193.7	802.7	455.7	429.2	417.5	412.8	413.5	418.8	435.6	428.6	424.9
35°	1258.1	785.0	435.6	413.8	405.7	399.0	398.3	415.1	465.1	460.8	457.4
37.5°	1333.6	767.2	415.5	396.3	397.0	389.6	387.3	406.4	470.8	453.7	451.4
40°	1429.6	757.8	398.3	377.9	386.3	385.3	380.6	390.3	433.3	402.0	398.0
42.5°	1548.4	759.1	385.6	358.1	373.5	384.3	376.9	377.2	392.6	369.2	365.5
45°	1695.1	774.9	376.5	342.3	359.1	383.2	375.5	370.2	371.5	359.1	357.1
47.5°	1866.2	807.4	370.2	329.2	345.3	379.6	375.2	368.1	365.1	358.4	356.7
50°	2056.5	854.8	365.5	316.8	332.9	373.5	375.5	366.1	362.8	360.1	359.1
52.5°	2243.4	908.8	358.4	306.1	323.2	366.1	376.5	364.1	360.4	358.4	357.4
55°	2451.8	976.2	347.7	297.0	315.1	356.7	376.5	361.1	357.1	357.4	357.1
57.5°	2733.4	1085.3	334.9	289.3	305.4	345.3	370.2	357.7	352.7	353.0	353.4
60°	3173.4	1277.6	319.5	281.6	293.3	331.9	361.4	350.4	345.3	346.7	347.0
62.5°	3820.4	1559.8	299.3	270.2	280.6	317.5	349.4	341.0	335.9	339.3	339.3
65°	4492.9	1808.8	274.5	255.7	267.1	301.7	334.3	329.2	324.2	331.9	331.6
67.5°	4673.8	1753.1	249.7	239.9	253.7	284.2	316.1	313.4	310.8	324.2	323.5
70°	4152.0	1407.5	226.9	223.8	238.9	265.5	296.7	296.7	295.0	305.1	302.7
72.5°	3163.3	998.1	205.0	206.7	222.2	245.0	275.5	277.9	275.2	280.2	278.2
75°	1693.4	571.2	183.2	187.9	201.4	224.2	252.0	254.4	252.7	252.4	253.4
77.5°	562.8	279.2	160.4	167.8	179.5	202.7	227.5	231.2	227.2	226.5	226.2
80°	250.7	175.5	135.2	145.0	155.4	178.2	201.7	204.7	200.3	206.4	198.7
82.5°	161.1	115.4	108.4	119.1	129.2	153.7	175.9	176.5	172.5	200.3	170.8
85°	78.2	71.5	81.5	91.3	100.0	120.8	145.6	146.0	135.9	123.8	119.5
87.5°	38.9	41.6	54.4	63.1	67.5	82.9	106.0	104.0	99.7	90.6	83.6
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)