

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: P298982

Luminaire Tested: **GLNA-AF-02-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298982
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-T2-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 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: 7589.1 lumens
Efficiency: N/A
Efficacy: 115.0 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

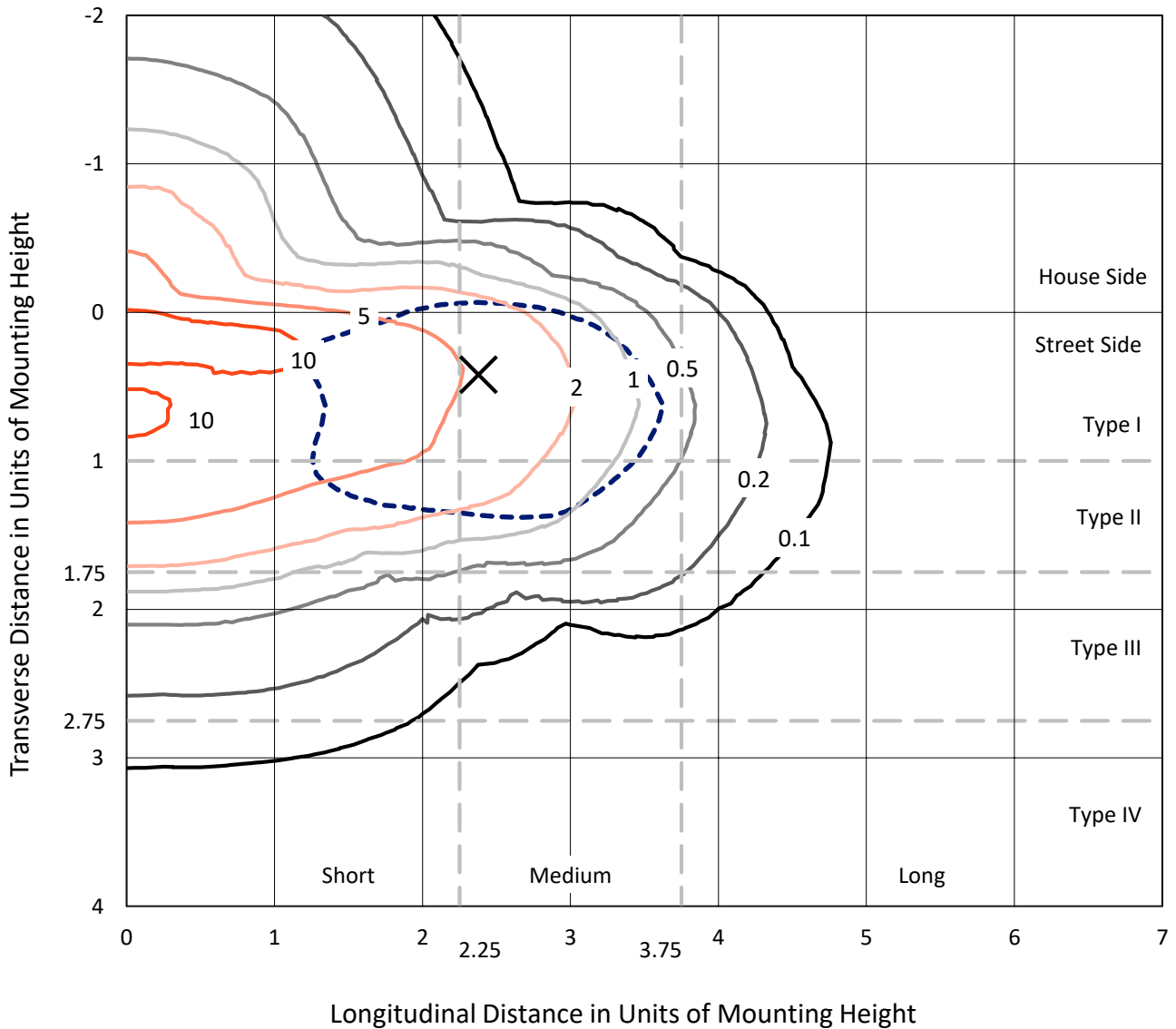
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

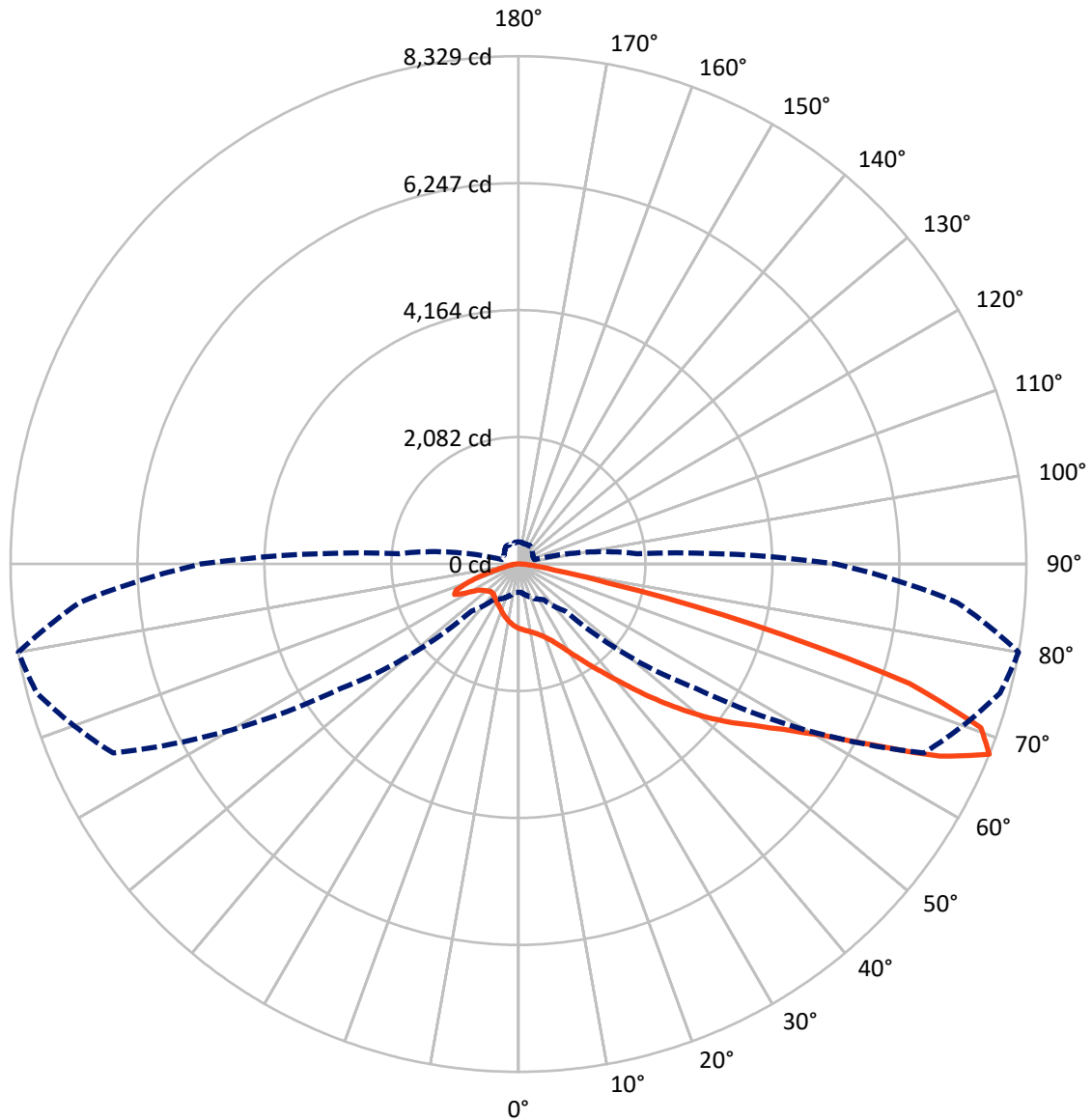
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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	1397.6	0.0	1397.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6191.5	0.0	6191.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	7589.1	0.0	7589.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	280.2	3.7
20°-30°	463.7	6.1
30°-40°	758.6	10.0
40°-50°	1224.8	16.1
50°-60°	1768.2	23.3
60°-70°	1951.4	25.7
70°-80°	899.5	11.9
80°-90°	145.5	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°	7589.1	100.0
0°-180°	7589.1	100.0



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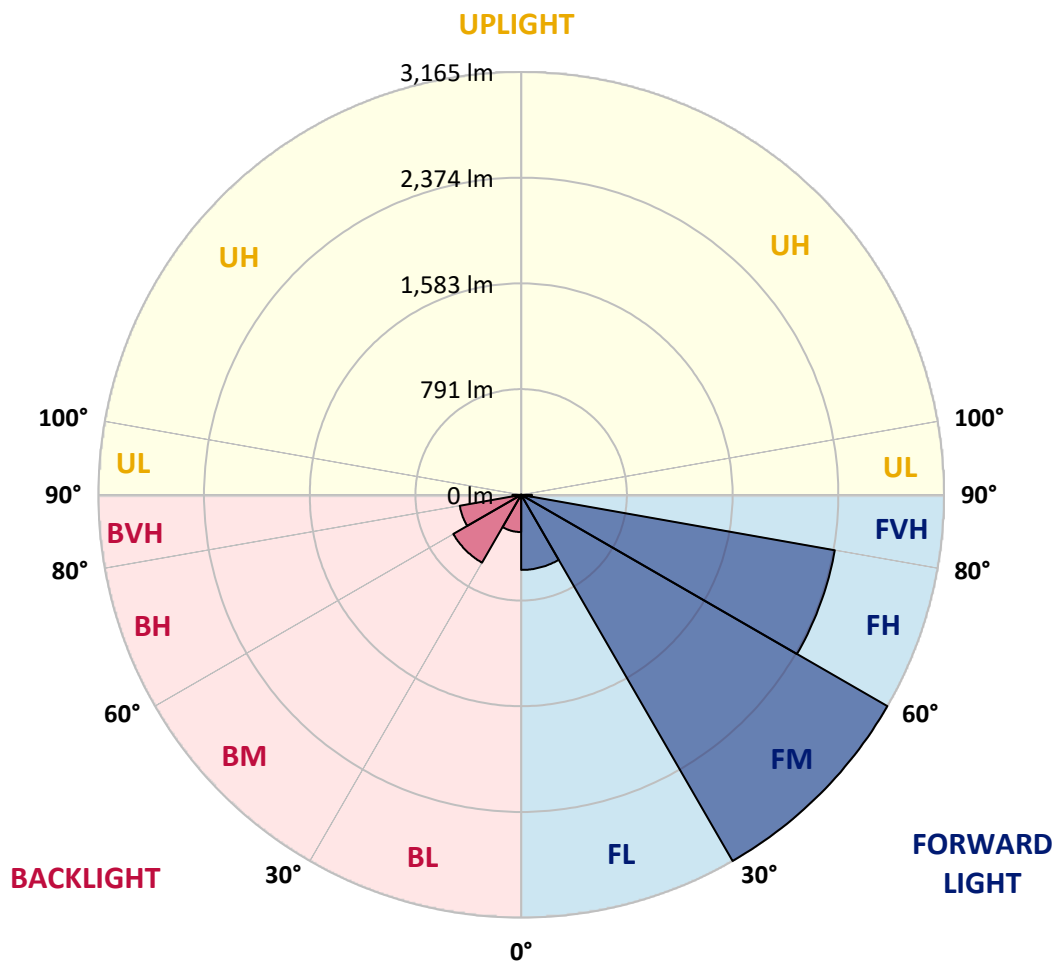
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.3	7.4			
FM	(30°-60°)	3165.2	41.7			
FH	(60°-80°)	2383.9	31.4			G2/5000
FVH	(80°-90°)	80.0	1.1			G1/100
BL	(0°-30°)	278.8	3.7	B1/500		
BM	(30°-60°)	586.4	7.7	B1/1000		
BH	(60°-80°)	466.9	6.2	B1/500		G1/500
BVH	(80°-90°)	65.5	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°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1153.4	1146.6	1147.8	1145.9	1140.3	1130.6	1120.1	1101.0	1081.2	1070.8	1062.6
5°	1249.7	1247.9	1245.3	1239.3	1225.1	1204.9	1179.9	1146.3	1110.0	1091.0	1072.7
7.5°	1321.9	1320.7	1317.4	1313.6	1299.8	1275.5	1237.8	1190.0	1137.3	1111.1	1082.7
10°	1327.8	1329.7	1332.3	1342.4	1344.3	1331.2	1292.7	1234.8	1165.7	1132.1	1095.8
12.5°	1277.0	1281.1	1291.2	1317.0	1344.3	1360.3	1340.5	1281.9	1198.9	1158.2	1112.3
15°	1209.8	1212.0	1224.3	1259.8	1308.8	1358.5	1377.2	1333.8	1241.9	1191.8	1136.9
17.5°	1181.0	1182.1	1190.7	1214.3	1259.8	1330.8	1397.7	1390.2	1294.6	1233.7	1167.2
20°	1166.4	1169.0	1181.4	1204.5	1233.3	1295.3	1400.7	1451.1	1357.3	1286.0	1205.3
22.5°	1207.9	1206.8	1211.3	1222.8	1247.1	1284.5	1398.4	1513.9	1437.3	1353.2	1255.0
25°	1304.7	1308.8	1300.9	1287.9	1295.7	1321.9	1410.4	1581.9	1537.4	1439.5	1320.0
27.5°	1442.5	1438.4	1426.8	1396.2	1380.1	1391.3	1450.0	1655.1	1661.8	1553.1	1405.9
30°	1580.0	1576.7	1565.5	1528.1	1495.2	1485.9	1527.0	1739.2	1810.2	1689.5	1511.3
32.5°	1722.7	1719.0	1708.5	1671.2	1631.6	1609.9	1636.4	1836.3	1985.0	1852.4	1635.3
35°	1898.7	1891.6	1869.6	1817.6	1778.8	1762.0	1774.3	1958.5	2186.8	2045.2	1785.9
37.5°	2064.2	2075.1	2052.7	1980.9	1930.5	1924.5	1938.3	2107.6	2404.2	2260.8	1958.9
40°	2230.5	2232.4	2212.2	2153.5	2101.6	2091.9	2126.6	2288.4	2660.9	2518.6	2169.2
42.5°	2402.4	2406.1	2372.1	2317.9	2279.8	2281.7	2321.3	2500.2	2955.3	2822.3	2411.3
45°	2606.0	2611.6	2574.2	2503.2	2468.5	2538.4	2521.9	2737.9	3278.1	3167.5	2689.3
47.5°	2818.9	2827.5	2799.1	2732.6	2689.3	2785.3	2722.5	3001.3	3625.6	3537.8	2994.5
50°	2935.1	2947.5	2975.1	2970.3	2960.9	2944.8	2946.3	3283.7	3983.9	3923.4	3308.4
52.5°	2872.7	2872.4	2973.2	3095.8	3226.6	3236.3	3219.1	3581.5	4318.6	4300.3	3603.9
55°	2587.3	2606.7	2759.5	2996.8	3354.0	3577.0	3627.8	3922.6	4647.4	4668.7	3903.9
57.5°	2112.1	2128.1	2334.4	2665.0	3182.1	3779.5	4209.2	4418.4	5015.1	5114.4	4303.3
60°	1432.4	1451.9	1670.4	2067.6	2719.6	3666.7	4762.5	5303.1	5455.2	5681.2	4863.7
62.5°	841.8	859.3	1037.5	1304.3	1914.8	3142.5	5005.3	6561.8	6154.2	6536.4	5718.6
65°	579.5	591.4	678.1	811.9	1100.3	2116.5	4704.2	7430.9	7229.9	7596.0	6709.8
67.5°	466.3	464.8	533.5	624.7	708.4	1091.3	3557.2	7332.6	8175.9	8328.7	7224.3
70°	384.1	382.6	429.3	504.8	566.0	614.6	1937.6	6187.8	7983.1	8045.1	6750.5
72.5°	321.3	322.8	352.7	408.7	464.4	462.9	851.5	4353.0	6280.1	6709.0	5381.2
75°	271.2	272.0	291.8	331.4	377.0	372.9	461.8	2358.3	3650.6	3949.1	2983.0
77.5°	230.9	231.6	244.3	266.4	298.9	297.4	337.0	1018.9	1522.9	1504.2	1020.3
80°	205.9	205.9	211.8	216.0	233.9	227.2	249.9	489.4	643.7	594.4	407.2
82.5°	161.4	162.1	198.8	197.3	184.2	175.6	175.6	288.4	341.1	315.3	238.4
85°	90.8	90.4	128.2	154.7	162.1	123.7	122.5	161.4	185.7	163.6	115.4
87.5°	38.9	39.6	59.4	68.7	91.9	77.0	75.8	83.3	94.5	81.8	53.4
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°	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3	1054.3
2.5°	1054.7	1045.0	1023.7	997.2	973.3	957.6	943.4	922.8	924.0	909.8	899.3
5°	1054.0	1033.8	984.5	925.8	869.4	828.7	798.0	770.4	763.7	750.6	742.8
7.5°	1054.7	1021.8	938.9	845.1	775.3	723.7	697.5	683.0	679.6	675.1	675.5
10°	1057.3	1011.0	888.8	769.7	696.4	662.4	656.1	660.6	665.8	667.3	667.7
12.5°	1063.3	1001.3	833.9	702.4	647.1	636.6	647.5	662.8	672.9	677.7	677.4
15°	1076.8	993.8	781.2	649.7	619.8	625.4	645.6	667.3	681.9	688.6	688.9
17.5°	1091.3	983.0	727.1	609.4	599.7	613.9	638.9	664.3	682.2	689.7	691.2
20°	1110.4	969.5	670.3	579.1	580.6	596.7	620.2	645.6	665.4	671.8	674.8
22.5°	1135.4	955.0	620.6	554.4	558.9	571.3	589.6	611.6	628.8	631.8	634.4
25°	1169.0	939.3	581.0	532.0	533.9	541.0	553.3	566.4	578.4	575.0	577.6
27.5°	1214.3	925.8	551.5	511.5	508.1	509.6	516.0	520.1	526.4	517.1	518.2
30°	1267.3	911.3	528.7	493.5	484.2	481.6	483.1	485.3	490.2	477.5	475.6
32.5°	1329.0	893.7	507.4	477.9	464.8	459.5	460.3	466.3	485.0	477.1	473.0
35°	1400.7	873.9	485.0	460.7	451.7	444.2	443.5	462.2	517.8	513.0	509.2
37.5°	1484.8	854.1	462.5	441.2	442.0	433.8	431.2	452.4	524.2	505.1	502.5
40°	1591.6	843.6	443.5	420.7	430.0	428.9	423.7	434.5	482.3	447.6	443.1
42.5°	1723.9	845.1	429.3	398.6	415.8	427.8	419.6	419.9	437.1	411.0	406.9
45°	1887.1	862.7	419.2	381.1	399.8	426.7	418.1	412.1	413.6	399.8	397.5
47.5°	2077.7	898.9	412.1	366.5	384.5	422.6	417.7	409.9	406.5	399.0	397.2
50°	2289.5	951.6	406.9	352.7	370.6	415.8	418.1	407.6	403.9	400.9	399.8
52.5°	2497.6	1011.8	399.0	340.7	359.8	407.6	419.2	405.4	401.3	399.0	397.9
55°	2729.6	1086.9	387.1	330.7	350.8	397.2	419.2	402.0	397.5	397.9	397.5
57.5°	3043.1	1208.3	372.9	322.1	340.0	384.5	412.1	398.3	392.7	393.0	393.4
60°	3532.9	1422.4	355.7	313.5	326.5	369.5	402.4	390.1	384.5	385.9	386.3
62.5°	4253.3	1736.6	333.3	300.8	312.3	353.4	388.9	379.6	374.0	377.7	377.7
65°	5002.0	2013.8	305.6	284.7	297.4	335.9	372.1	366.5	360.9	369.5	369.1
67.5°	5203.4	1951.8	278.0	267.1	282.5	316.5	351.9	349.0	346.0	360.9	360.2
70°	4622.4	1566.9	252.6	249.2	266.0	295.5	330.3	330.3	328.4	339.6	337.0
72.5°	3521.7	1111.1	228.3	230.1	247.3	272.7	306.7	309.4	306.4	312.0	309.7
75°	1885.3	635.9	204.0	209.2	224.2	249.6	280.6	283.2	281.3	281.0	282.1
77.5°	626.6	310.8	178.6	186.8	199.9	225.7	253.3	257.4	252.9	252.2	251.8
80°	279.1	195.4	150.6	161.4	173.0	198.4	224.5	227.9	223.0	229.8	221.2
82.5°	179.3	128.5	120.7	132.6	143.8	171.1	195.8	196.5	192.0	223.0	190.2
85°	87.1	79.6	90.8	101.6	111.3	134.5	162.1	162.5	151.3	137.9	133.0
87.5°	43.3	46.3	60.5	70.2	75.1	92.3	118.1	115.8	111.0	100.9	93.0
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)