

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: P301207

Luminaire Tested: **GLNA-AF-02-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
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-T3R-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7906.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

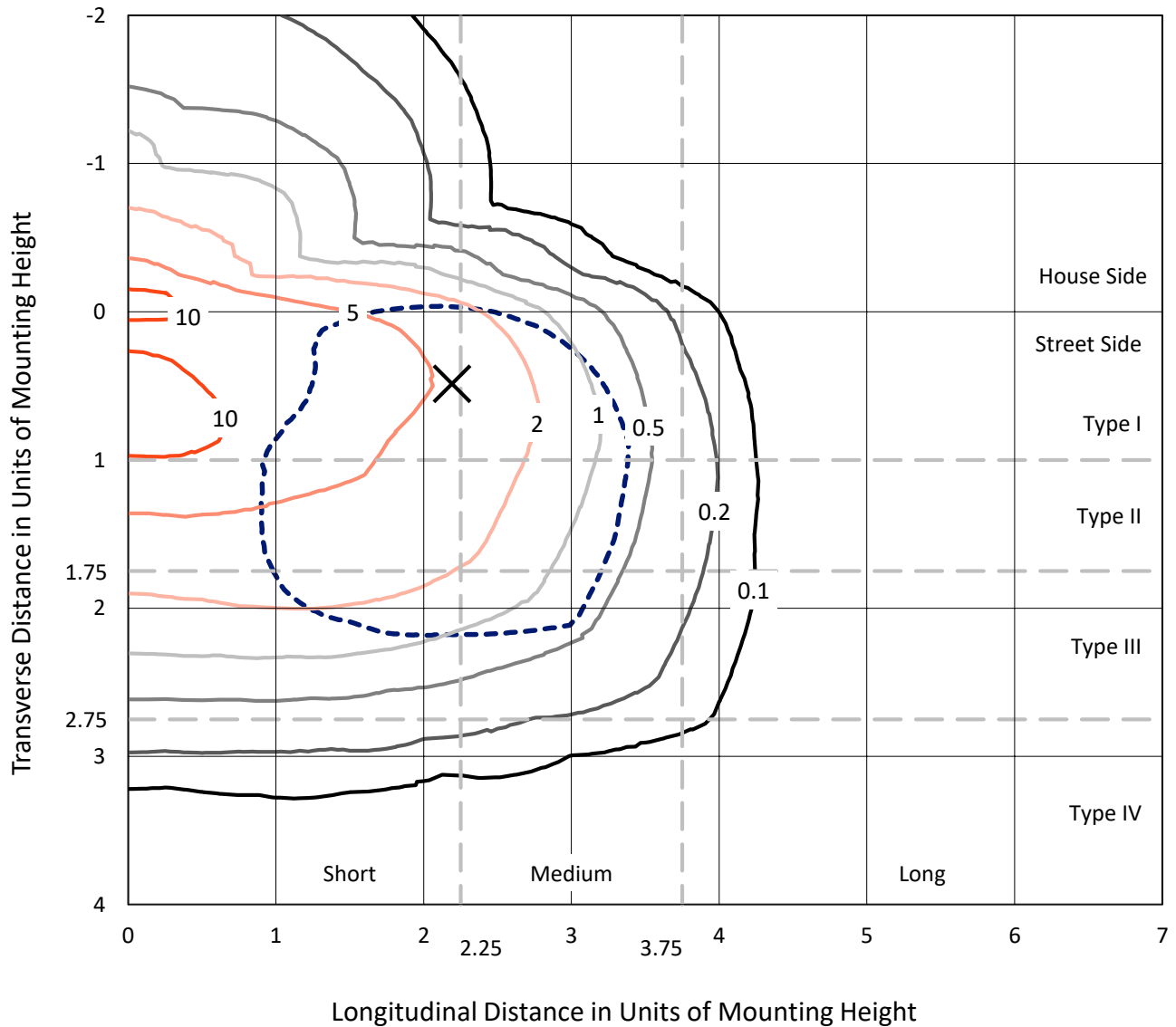
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P301207
 CATALOG NUMBER: GLNA-AF-02-LED-E1-T3R-7030-600

Iso-Footcandle Lines of Horizontal Illumination

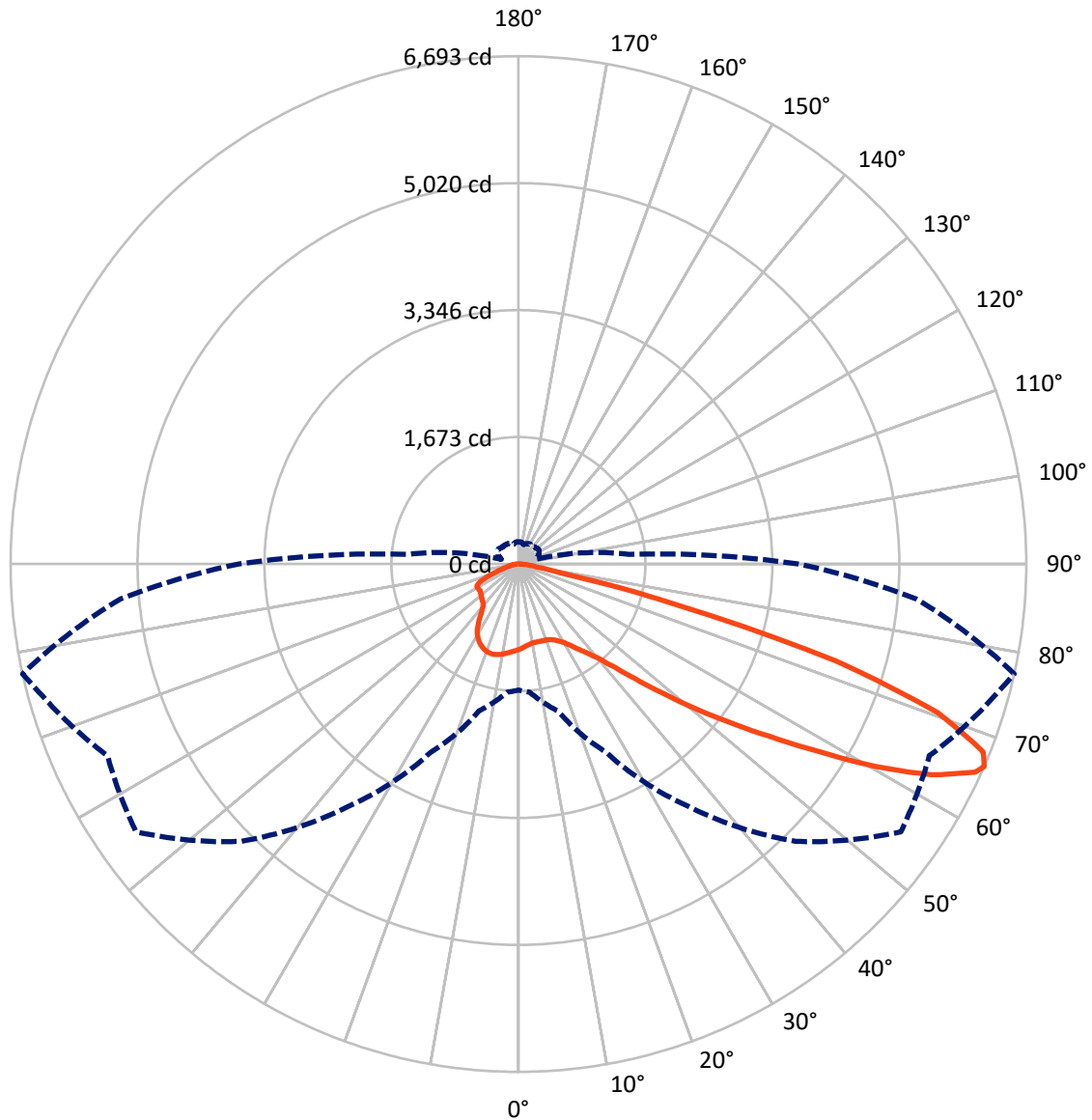
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P301207
CATALOG NUMBER: GLNA-AF-02-LED-E1-T3R-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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CATALOG NUMBER: GLNA-AF-02-LED-E1-T3R-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1350.8	0.0	1350.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6555.7	0.0	6555.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	7906.5	0.0	7906.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.3
10°-20°	284.0	3.6
20°-30°	484.7	6.1
30°-40°	775.9	9.8
40°-50°	1198.6	15.2
50°-60°	1700.1	21.5
60°-70°	2274.2	28.8
70°-80°	987.7	12.5
80°-90°	100.7	1.3
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°	7906.5	100.0
0°-180°	7906.5	100.0



REPORT NUMBER: P301207

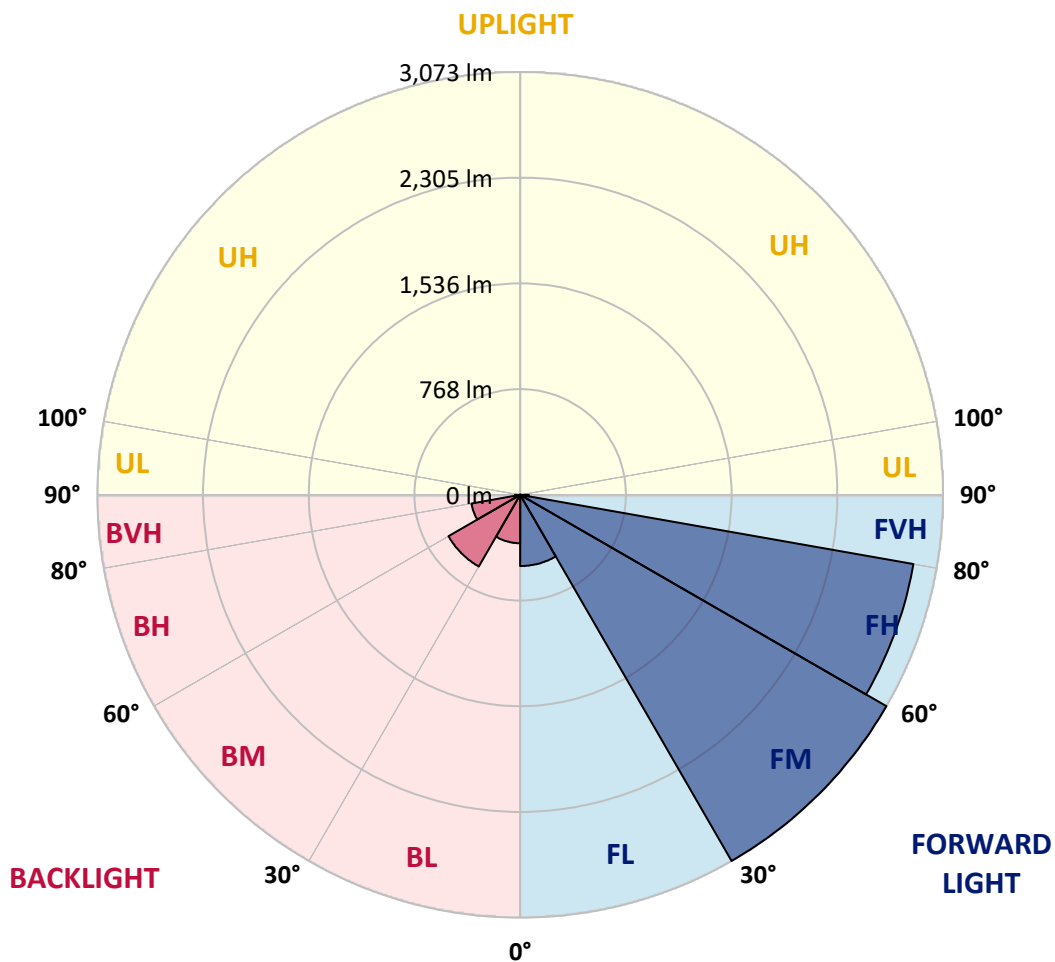
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.5	6.5			
FM	(30°-60°)	3072.9	38.9			
FH	(60°-80°)	2902.2	36.7			G2/5000
FVH	(80°-90°)	63.2	0.8			G1/100
BL	(0°-30°)	351.8	4.4	B1/500		
BM	(30°-60°)	601.7	7.6	B1/1000		
BH	(60°-80°)	359.7	4.5	B1/500		G1/500
BVH	(80°-90°)	37.5	0.5			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 III Short





REPORT NUMBER: P301207

CATALOG NUMBER: GLNA-AF-02-LED-E1-T3R-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	996.7	1003.4	1009.1	1014.3	1024.7	1041.9	1061.7	1077.7	1100.9	1105.4	1117.8
5°	905.2	905.2	909.6	917.6	931.7	957.5	984.4	1020.3	1070.7	1082.6	1115.5
7.5°	860.8	861.1	863.7	870.4	882.7	906.2	935.8	978.1	1046.4	1066.2	1122.2
10°	877.2	873.4	867.8	864.5	866.3	880.1	908.2	955.2	1031.5	1056.8	1137.2
12.5°	969.0	962.0	942.6	916.8	892.1	882.0	898.4	944.4	1025.1	1054.6	1157.0
15°	1119.2	1116.3	1080.0	1026.6	966.9	916.8	905.6	940.3	1025.8	1057.2	1180.5
17.5°	1307.6	1303.4	1255.6	1177.9	1080.4	982.9	930.6	943.7	1028.4	1061.7	1203.3
20°	1497.7	1484.9	1433.5	1340.8	1215.6	1072.9	972.1	952.3	1031.8	1066.5	1227.3
22.5°	1639.7	1629.1	1582.9	1492.8	1348.6	1177.1	1027.7	967.2	1042.7	1080.8	1256.7
25°	1764.4	1765.1	1719.2	1632.2	1483.1	1287.8	1099.4	1007.1	1070.3	1109.8	1297.0
27.5°	1918.7	1909.8	1866.8	1780.5	1616.1	1399.4	1186.1	1062.1	1111.4	1151.4	1350.1
30°	2103.2	2096.8	2047.2	1949.4	1763.6	1519.3	1285.1	1125.9	1164.5	1205.9	1419.5
32.5°	2320.2	2317.3	2265.7	2139.8	1934.0	1660.6	1401.3	1210.4	1243.7	1286.6	1519.3
35°	2575.1	2575.4	2514.6	2363.2	2120.4	1824.9	1533.1	1319.1	1340.0	1384.8	1638.2
37.5°	2732.0	2751.0	2728.2	2574.0	2331.4	2008.7	1704.2	1463.3	1449.9	1495.1	1765.5
40°	2765.6	2788.7	2860.8	2782.4	2567.6	2211.2	1855.9	1601.9	1585.1	1640.3	1929.6
42.5°	2718.5	2750.6	2903.1	2958.3	2818.3	2460.7	2059.9	1807.7	1786.5	1860.8	2133.5
45°	2690.5	2714.4	2890.8	3049.9	3035.7	2742.8	2319.6	2066.2	2058.4	2155.9	2368.9
47.5°	2641.9	2663.6	2833.2	3071.2	3163.5	3001.3	2631.5	2382.3	2397.6	2525.4	2634.5
50°	2668.1	2677.0	2769.0	3017.0	3200.5	3190.7	2980.0	2748.4	2800.7	2960.2	2935.2
52.5°	2664.3	2687.5	2761.5	2928.1	3205.3	3307.7	3323.3	3156.7	3267.0	3450.0	3268.8
55°	2154.1	2196.6	2673.7	2905.7	3222.4	3422.3	3628.9	3587.1	3792.5	4005.8	3645.3
57.5°	2056.9	2083.8	2348.3	2952.8	3313.6	3641.3	3968.8	4060.8	4404.4	4652.1	4104.1
60°	2037.8	2071.1	2344.9	3010.3	3498.5	3998.0	4472.9	4634.3	5149.0	5420.3	4636.1
62.5°	1978.4	2014.3	2322.8	3002.8	3761.2	4491.5	5118.0	5243.9	5855.1	6118.8	5081.1
65°	1790.2	1823.8	2143.2	2882.2	3938.3	5018.3	5881.5	5802.8	6412.5	6610.8	5302.9
66°	1661.3	1694.2	2001.6	2740.2	3897.1	5167.7	6152.1	5975.8	6537.2	6692.7	5259.5
67.5°	1425.5	1451.3	1726.6	2422.3	3678.6	5209.5	6379.6	6105.7	6550.2	6605.2	5011.9
70°	900.7	908.2	1122.2	1672.1	2784.7	4518.0	6033.2	5783.0	6010.1	5861.4	4201.6
72.5°	390.8	388.2	538.7	850.6	1576.5	3031.6	4880.4	4771.7	4714.6	4375.4	2941.2
75°	217.4	220.5	279.8	394.9	640.7	1489.1	3192.6	3055.1	2579.5	2201.1	1333.7
77.5°	174.4	178.6	232.0	280.2	287.6	519.3	1494.0	1215.6	731.8	587.3	370.6
80°	137.9	145.3	202.5	218.2	193.9	214.0	482.6	385.9	289.6	265.6	192.1
82.5°	109.0	114.4	173.7	165.1	135.6	144.2	231.2	225.3	188.3	171.5	111.0
85°	78.5	88.1	142.7	124.4	88.9	97.2	153.5	147.2	107.9	88.1	49.0
87.5°	32.1	41.9	100.9	82.6	49.7	45.2	76.6	72.1	51.1	37.3	24.3
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°	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	1125.6	1134.5	1146.2	1153.3	1157.0	1159.6	1163.7	1163.3	1164.5	1164.8	1166.3
5°	1133.0	1148.0	1164.8	1169.3	1169.3	1165.2	1161.1	1154.3	1151.7	1151.0	1151.7
7.5°	1152.5	1168.9	1183.5	1178.3	1167.1	1150.6	1129.3	1110.6	1100.6	1097.2	1096.5
10°	1177.1	1196.9	1202.9	1183.1	1150.2	1110.6	1068.4	1037.8	1020.3	1015.4	1013.9
12.5°	1207.0	1225.7	1217.5	1175.7	1114.7	1050.9	992.5	943.7	907.0	895.5	894.7
15°	1239.9	1254.5	1225.7	1152.5	1061.7	967.6	863.7	779.3	733.8	719.2	718.0
17.5°	1270.6	1278.0	1220.8	1112.1	983.6	831.3	693.4	628.3	612.7	616.5	617.1
20°	1296.7	1296.7	1204.4	1054.2	860.8	651.5	564.4	563.4	574.6	585.8	588.1
22.5°	1325.4	1308.2	1175.7	972.4	686.6	533.1	520.4	530.8	543.5	555.8	557.7
25°	1360.9	1317.6	1135.6	848.4	539.8	484.1	489.0	497.6	503.9	511.8	513.0
27.5°	1400.5	1329.5	1083.0	677.6	468.5	453.6	457.3	460.2	459.5	462.5	463.2
30°	1447.9	1343.4	1010.9	529.7	439.0	427.3	420.7	418.1	418.1	422.9	424.7
32.5°	1511.5	1363.9	907.4	453.9	424.7	408.7	387.1	377.3	381.1	397.5	401.2
35°	1581.4	1385.9	767.3	428.1	421.8	400.1	366.5	348.5	348.9	364.2	369.1
37.5°	1657.5	1414.0	613.7	423.3	428.5	400.5	355.6	331.0	320.9	320.9	322.8
40°	1755.0	1442.7	496.9	426.7	442.7	404.9	350.1	317.2	288.8	289.6	291.0
42.5°	1882.1	1467.4	434.1	433.7	459.9	410.9	349.6	298.8	274.2	291.0	306.3
45°	2023.3	1479.7	406.4	440.1	473.7	414.7	343.7	295.9	276.1	326.1	355.3
47.5°	2185.8	1472.6	391.1	442.3	477.1	414.7	337.0	303.0	289.1	377.7	411.7
50°	2364.0	1452.1	376.2	437.9	476.0	413.9	343.3	310.0	294.0	386.6	410.1
52.5°	2573.6	1434.9	360.5	428.1	468.1	409.8	350.8	307.1	278.7	351.5	367.9
55°	2812.6	1439.8	343.0	414.3	455.7	402.0	348.2	295.1	262.6	309.7	319.8
57.5°	3118.2	1497.7	322.0	396.8	439.0	388.9	338.9	289.6	257.8	281.0	287.0
60°	3459.3	1598.5	295.9	379.1	418.1	367.9	331.8	292.2	260.0	278.7	281.6
62.5°	3709.6	1657.2	273.5	353.4	389.7	344.8	322.8	295.4	266.0	286.5	285.8
65°	3777.6	1560.8	245.5	315.7	351.2	320.6	311.5	299.2	268.6	292.8	289.6
66°	3682.3	1457.0	233.1	298.2	331.8	308.6	306.0	298.8	267.5	293.6	288.0
67.5°	3451.1	1244.0	211.9	272.4	300.8	290.7	297.0	295.4	264.5	292.8	285.0
70°	2814.5	848.8	181.2	226.8	250.3	255.9	279.8	283.6	254.7	279.8	262.6
72.5°	1966.5	517.0	160.3	176.0	202.5	218.2	256.3	267.1	241.7	244.3	227.9
75°	950.4	274.6	145.3	136.4	157.2	182.3	227.9	244.7	221.1	204.4	198.4
77.5°	296.2	167.7	123.3	109.8	123.3	147.2	190.5	214.5	196.9	171.1	168.9
80°	159.1	123.3	94.9	88.1	97.5	115.5	149.8	178.9	169.2	153.5	137.1
82.5°	105.0	80.0	70.2	68.3	74.3	88.1	111.3	148.3	148.3	131.5	95.7
85°	54.2	49.0	48.2	48.2	51.9	58.7	75.8	114.4	121.8	69.5	57.6
87.5°	26.9	28.1	26.1	27.3	29.2	28.7	36.2	57.6	68.8	42.2	35.1
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)