

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: P300363

Luminaire Tested: **GLNA-AF-02-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9541.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

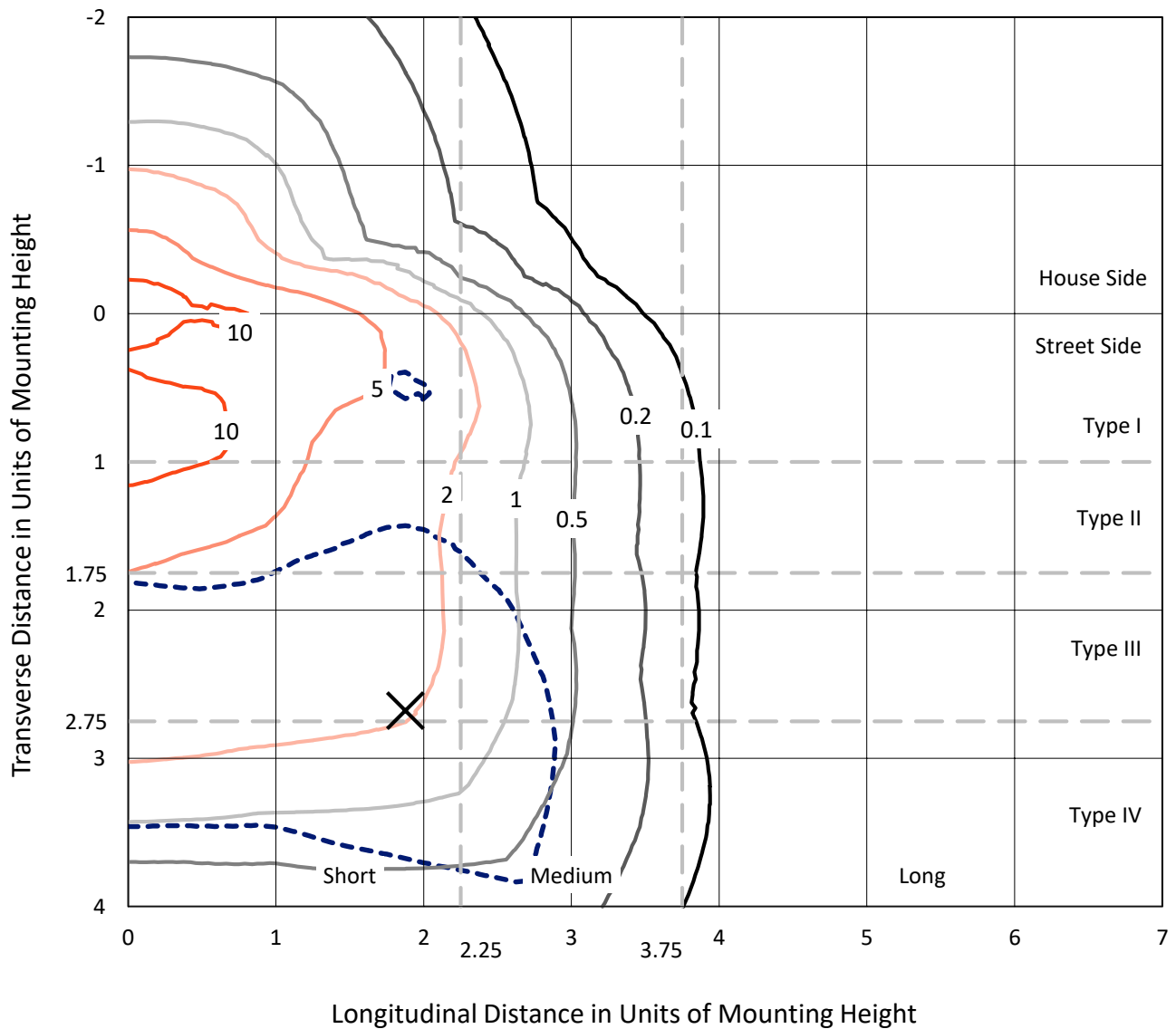
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

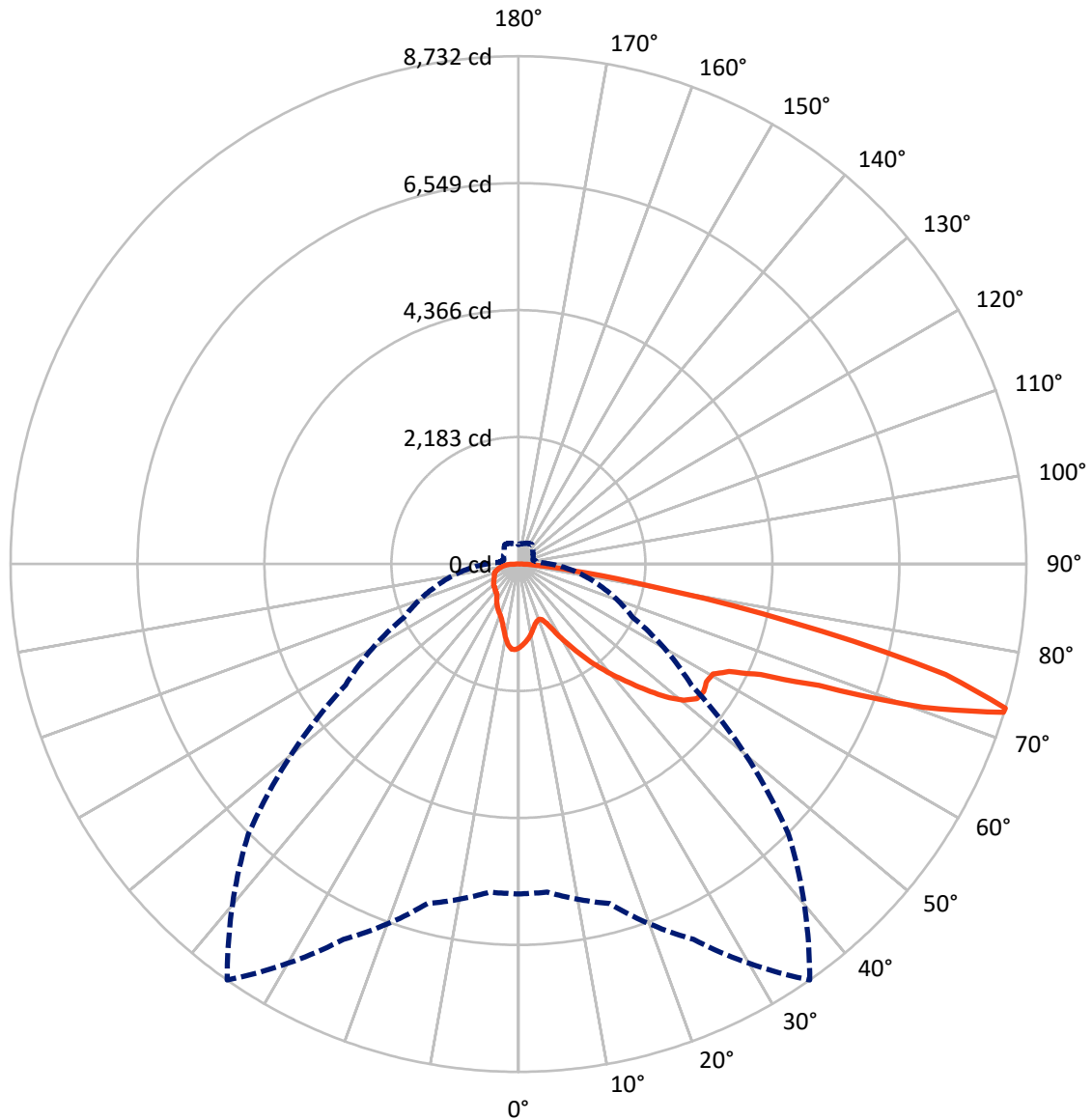
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.8	0.0	1819.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	7721.7	0.0	7721.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	9541.6	0.0	9541.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.4
10°-20°	325.4	3.4
20°-30°	526.0	5.5
30°-40°	882.1	9.2
40°-50°	1359.7	14.3
50°-60°	1824.2	19.1
60°-70°	2430.2	25.5
70°-80°	1853.5	19.4
80°-90°	210.1	2.2
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°	9541.6	100.0
0°-180°	9541.6	100.0



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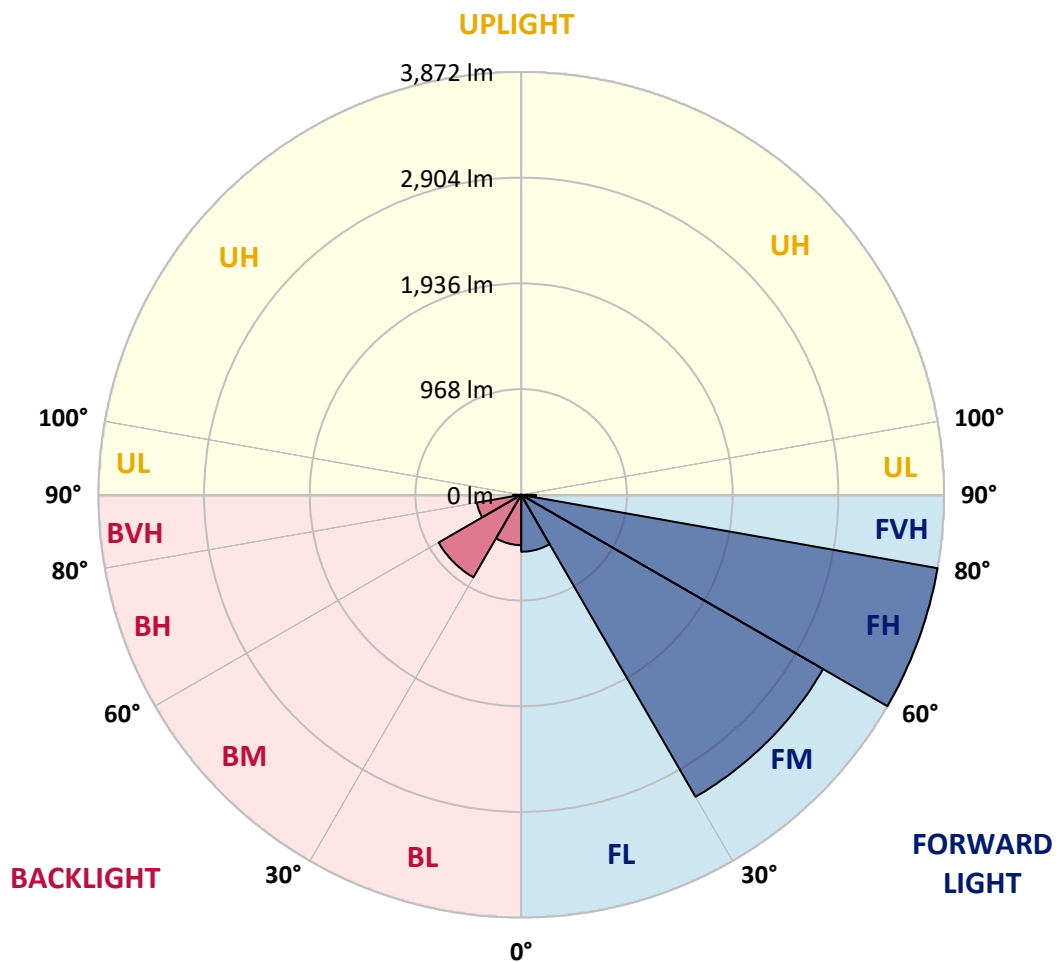
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.3	5.5			
FM	(30°-60°)	3192.7	33.5			
FH	(60°-80°)	3872.0	40.6			G2/5000
FVH	(80°-90°)	135.8	1.4			G2/225
BL	(0°-30°)	460.5	4.8	B1/500		
BM	(30°-60°)	873.3	9.2	B1/1000		
BH	(60°-80°)	411.7	4.3	B1/500		G1/500
BVH	(80°-90°)	74.3	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1
2.5°	1383.3	1386.1	1382.8	1387.0	1393.8	1401.2	1406.2	1413.5	1421.8	1433.2	1436.0
5°	1318.2	1322.4	1322.4	1329.7	1343.0	1354.9	1365.9	1377.8	1395.2	1414.9	1422.7
7.5°	1246.8	1249.0	1253.2	1264.2	1283.4	1300.4	1315.9	1335.2	1359.0	1385.1	1398.9
10°	1160.6	1163.8	1170.2	1185.8	1211.9	1235.3	1257.8	1284.3	1314.6	1347.1	1364.5
12.5°	1099.7	1098.8	1101.5	1113.0	1135.9	1164.3	1196.8	1230.7	1267.8	1305.9	1326.9
15°	1079.1	1074.0	1063.5	1060.7	1073.1	1101.5	1139.1	1180.8	1225.2	1271.0	1297.2
17.5°	1091.9	1083.2	1054.3	1033.2	1031.4	1052.9	1092.8	1139.5	1190.9	1246.8	1279.3
20°	1172.5	1151.9	1080.9	1031.9	1014.9	1025.4	1060.3	1109.8	1170.2	1244.5	1286.2
22.5°	1365.4	1335.2	1184.4	1093.3	1036.0	1023.2	1049.3	1102.0	1172.5	1272.9	1326.0
25°	1646.3	1603.2	1362.2	1246.3	1128.1	1059.8	1065.8	1119.8	1205.1	1338.9	1403.0
27.5°	1868.1	1840.1	1594.5	1462.1	1295.8	1158.8	1119.4	1164.7	1271.5	1447.0	1512.5
30°	2000.0	1983.1	1842.9	1706.8	1509.8	1316.4	1222.0	1249.0	1375.5	1596.8	1650.9
32.5°	2153.1	2143.0	2074.3	1949.2	1740.7	1523.5	1384.7	1375.1	1514.8	1776.9	1801.6
35°	2311.6	2308.4	2268.1	2178.3	1988.6	1796.6	1600.5	1535.4	1666.5	1963.8	1948.3
37.5°	2459.2	2453.7	2430.3	2378.1	2247.9	2089.8	1820.4	1699.9	1830.0	2142.5	2073.3
40°	2730.9	2687.8	2607.6	2568.2	2510.0	2336.8	1995.0	1853.4	1999.6	2313.0	2181.5
42.5°	3062.1	2992.0	2842.7	2788.6	2780.4	2531.5	2114.1	2002.3	2170.5	2482.1	2287.8
45°	3322.9	3256.9	3128.1	3059.9	3090.1	2708.0	2233.7	2161.3	2346.4	2659.4	2397.3
47.5°	3601.0	3497.4	3327.0	3347.6	3413.6	2874.7	2355.6	2332.2	2539.3	2857.8	2533.4
50°	3611.1	3531.8	3457.1	3580.4	3683.0	3028.2	2508.2	2511.4	2775.3	3107.5	2714.4
52.5°	3401.7	3384.7	3503.4	3697.2	3845.2	3149.7	2681.8	2696.5	3077.3	3394.3	2913.2
55°	3328.4	3309.1	3446.1	3656.4	3867.2	3250.0	2870.2	2896.7	3442.4	3696.7	3107.0
57.5°	3507.1	3464.4	3473.6	3637.2	3813.6	3360.0	3075.4	3129.0	3839.2	3961.1	3231.7
60°	4006.5	3915.3	3742.1	3738.0	3842.5	3524.9	3312.8	3378.3	4251.6	4087.6	3183.1
62.5°	4707.1	4615.9	4291.5	4080.3	4064.7	3797.1	3604.2	3621.6	4489.9	3916.2	2886.7
65°	5465.4	5383.8	5021.4	4723.1	4579.2	4248.0	3942.8	3730.2	4412.0	3444.7	2368.0
67.5°	6385.9	6298.4	5986.8	5711.4	5573.1	4975.6	4180.6	3626.2	3917.6	2668.5	1702.2
70°	7029.7	6940.3	6817.5	7040.7	7379.3	6025.3	4211.3	3203.3	2926.1	1773.7	1024.5
72.5°	6189.8	6148.1	6372.2	7311.9	8722.3	6662.2	3806.7	2332.2	1699.5	941.6	592.9
73°	5671.1	5662.0	6044.1	7121.8	8731.9	6564.2	3629.4	2167.7	1457.5	833.0	542.0
75°	2560.9	2634.6	3472.2	5439.7	7586.4	5409.0	2554.5	1243.6	823.4	575.5	409.2
77.5°	615.4	641.0	1086.4	2583.3	4790.9	3223.4	1157.4	614.9	526.5	406.4	298.7
80°	262.1	270.8	418.3	954.4	2255.7	1298.1	533.3	411.9	364.3	283.6	209.4
82.5°	145.7	154.9	237.3	433.0	910.4	442.6	325.3	286.8	239.6	170.9	136.1
85°	82.5	87.5	138.8	241.9	385.8	177.8	194.7	190.6	135.2	88.0	66.9
87.5°	38.9	42.2	66.9	112.3	151.2	69.6	99.0	109.1	84.8	53.6	34.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1
2.5°	1439.2	1447.4	1457.1	1462.1	1466.7	1472.2	1477.7	1477.7	1478.6	1479.1
5°	1429.1	1446.1	1461.2	1467.6	1469.0	1469.0	1467.6	1460.3	1453.9	1456.6
7.5°	1408.0	1432.8	1445.6	1443.3	1425.9	1405.8	1388.8	1368.2	1357.6	1355.8
10°	1377.8	1406.2	1408.5	1385.6	1342.5	1299.5	1263.7	1228.9	1212.4	1208.3
12.5°	1344.4	1370.5	1355.8	1308.6	1239.4	1176.7	1131.3	1096.0	1080.4	1076.3
15°	1317.3	1335.2	1298.1	1223.8	1136.8	1070.4	1032.8	1006.7	995.7	992.5
17.5°	1303.1	1306.8	1239.0	1138.6	1046.1	990.6	967.3	954.9	950.8	948.5
20°	1310.0	1284.3	1182.6	1059.4	971.8	932.9	927.4	924.2	923.3	921.9
22.5°	1344.4	1277.5	1130.8	984.2	906.8	889.8	894.4	893.9	893.0	892.1
25°	1405.8	1283.4	1080.4	912.7	852.2	848.6	856.8	856.8	853.2	853.2
27.5°	1486.9	1295.8	1024.1	844.9	802.8	803.2	809.6	807.8	803.7	800.9
30°	1585.8	1303.6	958.1	784.0	756.5	754.7	756.5	748.7	736.3	735.4
32.5°	1687.1	1294.0	881.6	729.9	707.5	703.3	702.0	691.0	676.8	672.6
35°	1778.7	1258.7	803.7	686.8	660.7	651.6	658.0	654.3	641.5	638.3
37.5°	1845.6	1193.1	733.6	648.8	627.3	625.0	629.1	630.5	615.4	612.2
40°	1890.5	1104.3	673.6	616.7	620.9	612.2	598.4	588.8	584.2	582.8
42.5°	1926.7	1011.7	623.2	601.6	622.2	597.0	567.3	551.7	559.9	563.6
45°	1968.4	921.4	581.0	582.8	615.4	579.6	545.7	530.6	533.8	534.7
47.5°	2025.7	811.5	535.6	552.6	592.5	567.7	532.4	510.9	495.8	488.9
50°	2105.0	681.3	488.4	518.7	570.0	559.0	511.8	488.9	460.9	454.5
52.5°	2159.9	559.9	449.5	490.3	549.8	541.6	495.3	465.5	436.2	430.7
55°	2130.2	465.1	415.6	458.7	523.3	520.1	481.6	441.7	418.8	414.2
57.5°	1981.3	405.0	389.5	428.9	490.7	501.7	463.2	421.5	405.0	401.8
60°	1697.2	367.5	373.0	408.7	464.2	483.4	444.9	410.5	399.5	397.3
62.5°	1316.9	342.3	360.6	394.1	443.5	470.6	434.8	409.2	405.0	402.3
65°	943.4	322.1	347.3	379.4	424.8	458.7	431.2	407.3	408.3	406.0
67.5°	641.0	304.2	331.3	362.9	406.4	448.1	426.1	400.9	412.4	409.6
70°	448.6	286.8	312.5	341.8	383.5	433.5	417.0	391.3	390.4	379.4
72.5°	350.1	263.9	286.8	312.5	354.2	412.8	398.6	369.8	354.6	343.2
73°	334.0	258.4	280.4	306.1	347.8	407.8	393.6	363.8	346.9	336.3
75°	276.3	234.6	254.8	277.7	320.3	384.0	368.9	336.8	315.2	308.8
77.5°	217.2	200.7	219.9	240.6	282.3	349.1	332.2	301.5	289.6	284.1
80°	160.8	166.3	183.3	201.6	244.7	312.0	296.9	266.2	319.4	306.1
82.5°	113.2	126.0	141.6	158.1	205.3	275.8	257.5	225.9	233.7	194.3
85°	66.9	82.5	97.1	111.3	148.0	228.6	212.6	180.1	147.5	140.7
87.5°	38.9	45.8	49.9	64.6	101.7	172.3	149.8	133.3	76.5	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)