

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: P522665

Luminaire Tested: **GALN-SA2B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8418 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

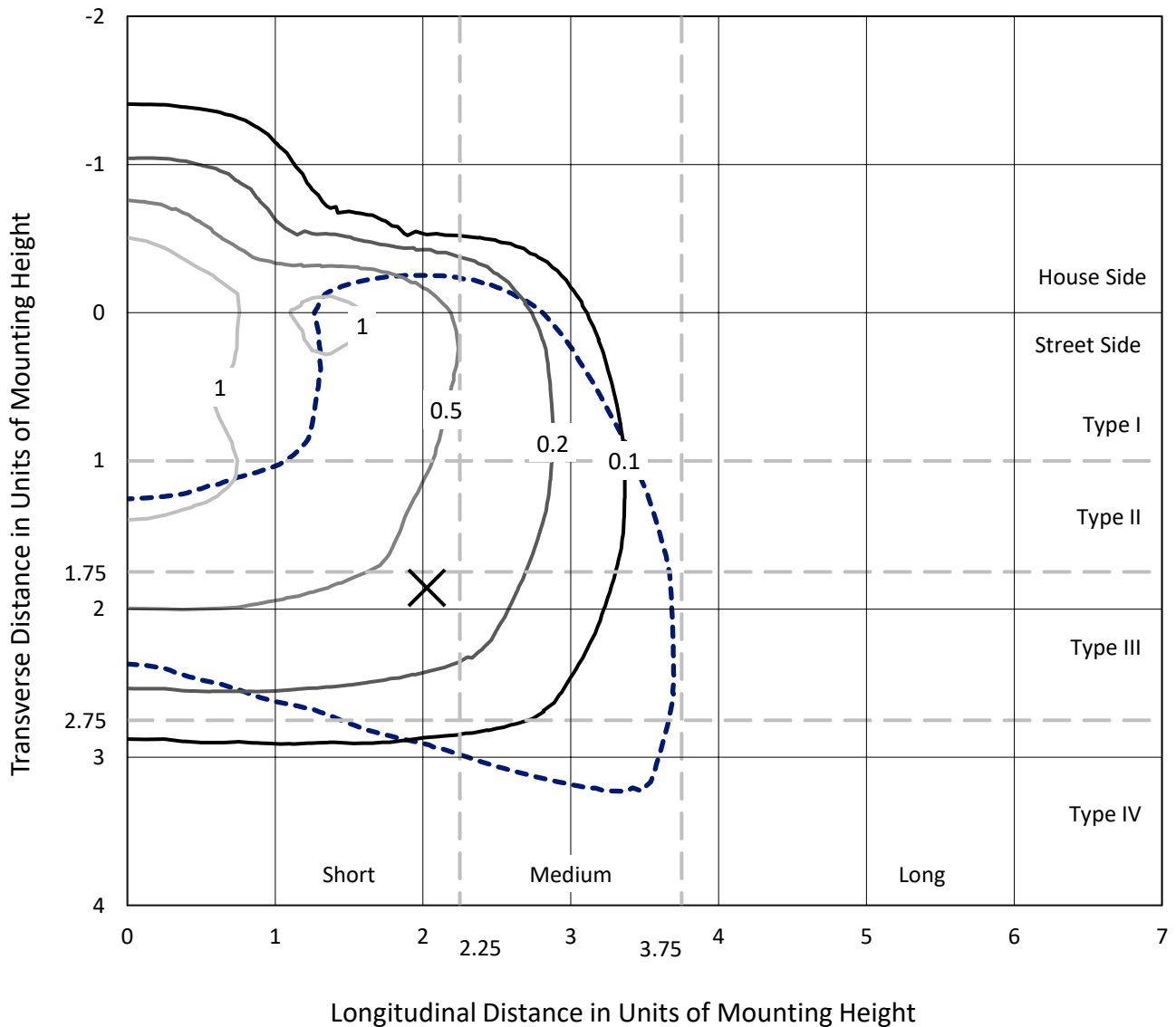
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

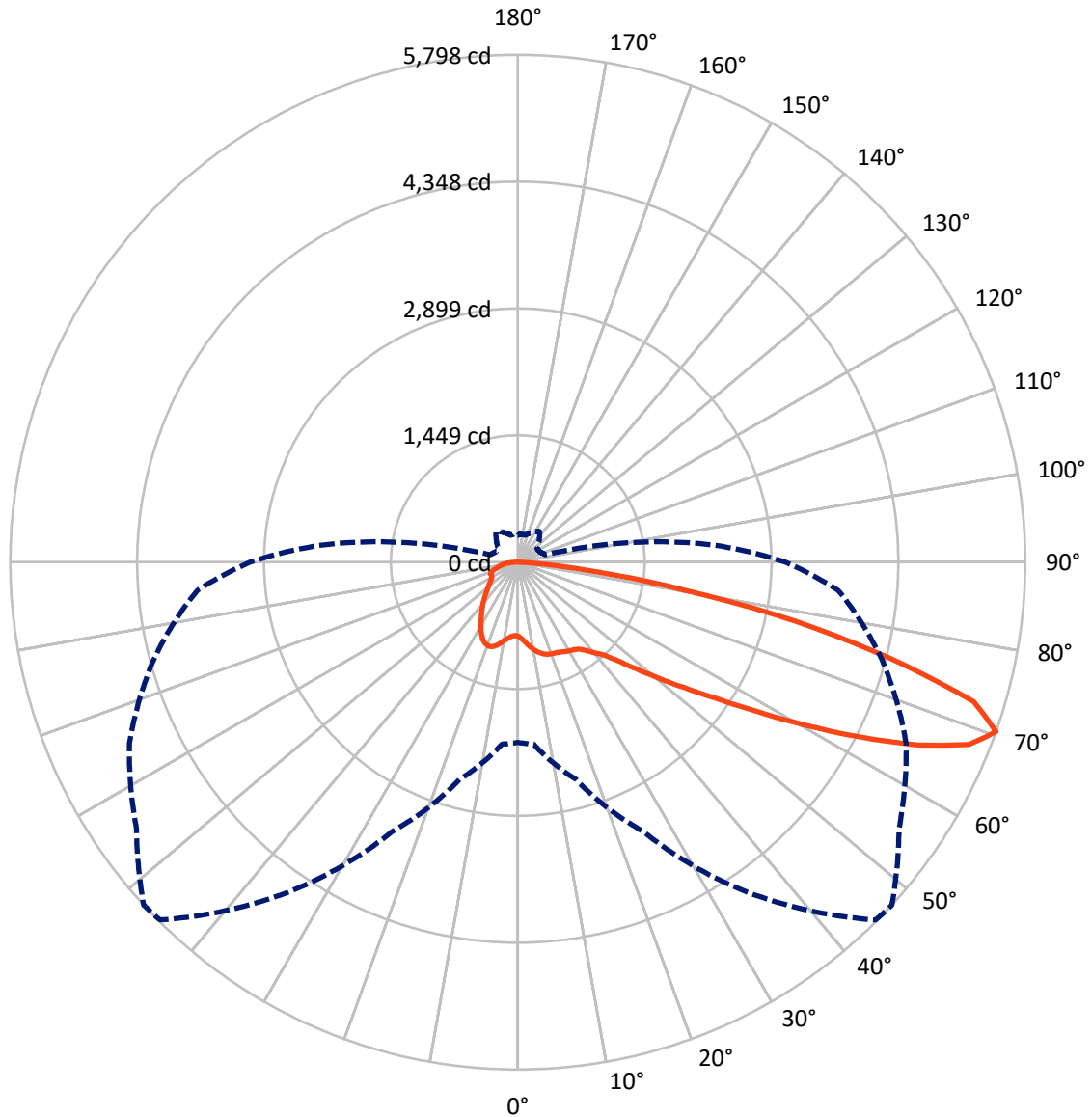
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1906.0	0.0	1906.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6512.0	0.0	6512.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	8418.0	0.0	8418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.0
10°-20°	291.2	3.5
20°-30°	484.3	5.8
30°-40°	686.4	8.2
40°-50°	1013.3	12.0
50°-60°	1755.0	20.8
60°-70°	2479.0	29.4
70°-80°	1425.1	16.9
80°-90°	196.6	2.3
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°	8418.0	100.0
0°-180°	8418.0	100.0

Coefficient of Utilization



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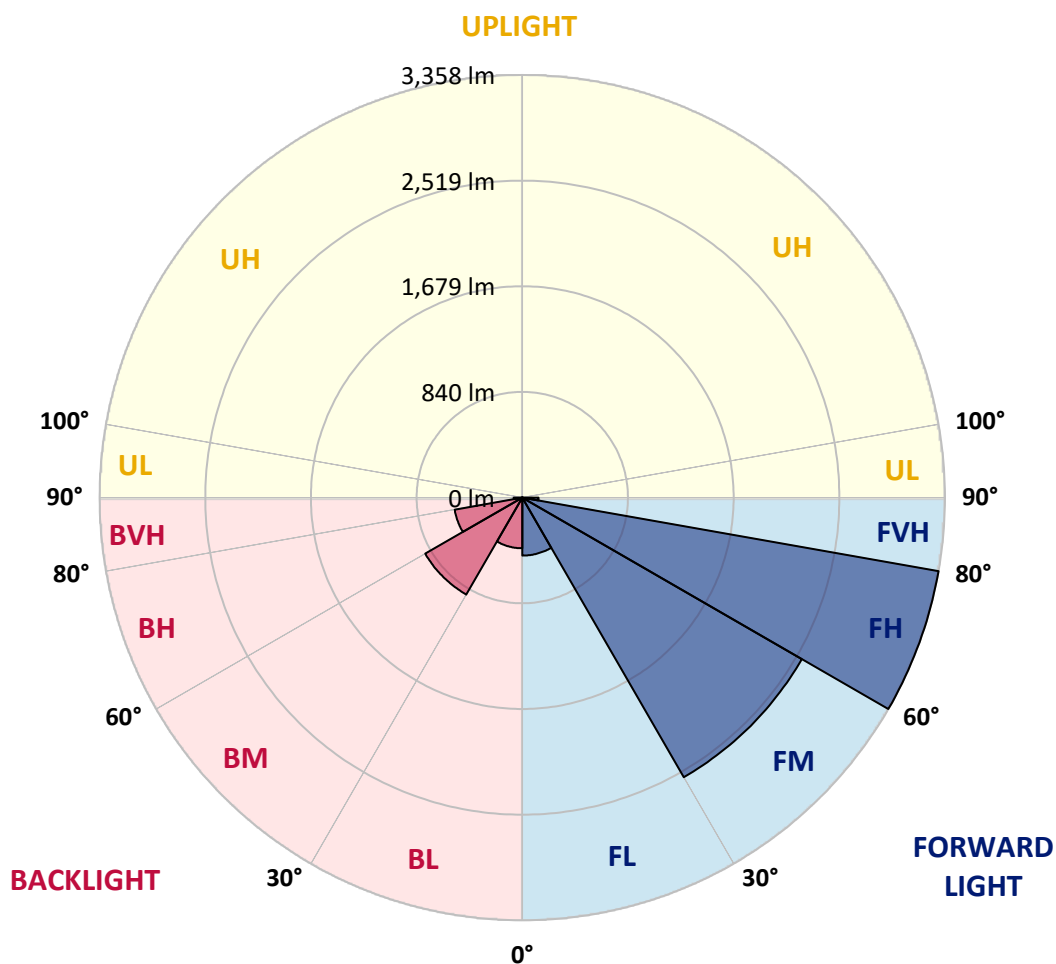
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.3	5.5			
FM	(30°-60°)	2564.8	30.5			
FH	(60°-80°)	3358.4	39.9			G2/5000
FVH	(80°-90°)	128.4	1.5			G2/225
BL	(0°-30°)	402.3	4.8	B1/500		
BM	(30°-60°)	889.9	10.6	B1/1000		
BH	(60°-80°)	545.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	68.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	899.6	896.4	896.0	889.2	885.6	878.9	876.1	869.8	862.2	854.5	847.3
5°	970.3	970.3	967.1	957.7	942.8	927.5	920.7	908.6	887.0	869.4	854.5
7.5°	1042.8	1043.7	1037.4	1023.4	1002.3	977.5	971.2	953.2	922.5	896.9	874.8
10°	1105.4	1105.4	1096.9	1078.0	1051.4	1024.3	1018.0	997.8	963.5	931.6	902.7
12.5°	1153.2	1153.2	1141.9	1117.1	1088.3	1064.0	1056.8	1037.4	1005.4	969.8	933.4
15°	1184.3	1182.0	1169.4	1141.5	1113.5	1092.4	1087.4	1071.2	1041.9	1005.9	964.9
17.5°	1185.6	1184.7	1172.6	1149.1	1124.8	1110.4	1107.2	1096.4	1073.4	1039.2	996.0
20°	1159.5	1161.3	1153.2	1136.5	1124.8	1118.5	1117.1	1113.5	1097.3	1065.3	1022.1
22.5°	1131.6	1134.7	1127.1	1118.0	1117.1	1123.5	1124.4	1125.3	1114.9	1083.8	1044.2
25°	1124.8	1127.1	1119.4	1111.3	1116.2	1132.9	1136.5	1140.1	1132.0	1105.9	1070.3
27.5°	1159.0	1157.2	1142.4	1124.8	1128.0	1150.5	1155.4	1159.5	1155.4	1132.9	1102.7
30°	1255.9	1250.0	1220.3	1168.9	1152.7	1168.5	1173.5	1184.7	1184.7	1168.0	1137.9
32.5°	1418.1	1406.8	1352.3	1251.4	1195.1	1185.6	1190.6	1209.0	1218.5	1205.4	1172.6
35°	1614.9	1603.2	1525.3	1389.7	1272.6	1219.8	1218.5	1239.2	1264.4	1235.2	1192.4
37.5°	1812.7	1800.5	1706.8	1554.5	1385.6	1291.9	1283.8	1291.0	1301.8	1248.2	1219.8
40°	2010.4	1996.0	1914.0	1738.8	1523.9	1387.4	1366.2	1333.8	1329.3	1291.0	1273.0
42.5°	2206.4	2193.3	2151.9	1945.5	1689.7	1480.7	1448.2	1392.4	1409.5	1386.5	1370.8
45°	2404.1	2405.0	2360.9	2177.5	1889.7	1652.7	1609.0	1521.7	1562.2	1553.6	1562.7
47.5°	2579.3	2577.1	2561.3	2402.8	2137.9	1874.4	1818.1	1716.7	1786.1	1817.6	1886.5
50°	2749.2	2747.8	2748.7	2658.2	2426.2	2137.9	2075.7	1969.4	2125.7	2235.2	2358.6
52.5°	2992.4	3000.1	2945.6	2921.7	2776.6	2449.2	2380.7	2270.8	2527.1	2699.6	2940.6
55°	3236.6	3230.3	3187.5	3212.2	3143.3	2817.6	2746.0	2658.6	2973.9	3162.7	3524.9
57.5°	3380.3	3382.5	3426.2	3547.4	3596.0	3277.1	3212.2	3144.7	3476.2	3610.0	4044.7
60°	3509.5	3519.9	3645.6	3874.4	4006.4	3841.5	3783.9	3718.1	3937.0	3990.2	4496.1
62.5°	3550.1	3582.1	3801.4	4143.8	4406.4	4478.5	4406.9	4261.8	4375.8	4355.1	4801.9
65°	3347.8	3391.5	3784.8	4244.7	4763.6	5083.0	5037.5	4768.1	4749.7	4624.9	4851.9
67.5°	2815.4	2859.1	3364.0	4033.0	4911.4	5606.4	5560.9	5137.5	4976.7	4650.1	4473.5
70°	2060.0	2087.4	2570.3	3395.6	4614.5	5782.1	5797.9	5317.7	4895.6	4307.3	3673.1
72.5°	1187.0	1247.8	1586.1	2388.8	3769.9	5338.0	5447.4	4942.9	4383.0	3593.3	2568.1
75°	510.4	511.7	733.4	1317.6	2553.2	4290.6	4396.5	4097.4	3442.0	2484.7	1371.2
77.5°	242.8	247.3	322.5	588.3	1405.4	2964.5	3250.1	2894.7	2201.4	1193.7	518.0
80°	157.7	160.8	197.3	291.9	689.2	1719.0	1918.1	1669.9	971.2	426.6	223.4
82.5°	95.5	96.4	132.0	178.4	379.3	778.4	917.6	724.8	414.4	255.4	131.5
85°	58.1	58.6	80.2	110.4	230.2	268.9	276.1	273.9	243.2	167.1	70.3
87.5°	27.9	28.8	41.4	52.3	90.5	83.3	78.8	91.4	114.9	90.1	30.2
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°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	844.2	842.8	839.7	838.3	837.4	837.9	837.4	837.4	837.9	837.9	837.9
5°	848.2	846.0	841.0	841.0	843.7	850.0	855.9	860.4	865.3	864.9	864.9
7.5°	865.8	861.7	855.9	857.7	864.4	874.3	884.7	894.6	904.5	905.4	905.0
10°	891.5	887.4	881.1	883.4	894.2	909.0	922.1	936.5	947.3	950.5	949.6
12.5°	920.7	912.6	907.2	913.5	930.7	950.5	963.1	973.9	981.6	986.1	984.3
15°	950.5	942.8	936.5	949.6	970.3	988.8	995.1	996.9	998.2	1002.7	1001.8
17.5°	979.3	968.9	966.7	983.8	1003.6	1011.7	1008.1	1000.5	994.6	998.2	997.8
20°	1005.0	996.9	996.0	1013.1	1020.7	1013.1	997.8	984.3	973.9	974.8	974.3
22.5°	1029.3	1023.0	1023.9	1031.1	1018.9	992.8	967.6	949.1	937.9	940.1	941.5
25°	1056.3	1050.0	1052.3	1040.6	1000.5	955.0	918.5	902.7	898.2	902.7	905.9
27.5°	1091.5	1087.4	1086.1	1041.0	967.6	899.1	857.7	851.8	855.9	865.8	870.7
30°	1129.3	1129.3	1122.1	1033.4	922.5	832.0	796.0	796.9	810.8	824.8	829.8
32.5°	1165.8	1173.5	1150.9	1012.6	864.4	766.7	739.2	740.1	752.3	769.4	773.9
35°	1196.0	1218.0	1175.7	974.8	796.0	711.7	691.0	678.8	679.3	692.4	696.0
37.5°	1237.4	1278.4	1190.1	918.5	723.0	664.9	641.5	620.3	606.3	600.9	600.9
40°	1309.5	1369.9	1193.7	835.2	654.1	620.3	587.0	561.7	534.7	510.4	505.9
42.5°	1431.6	1507.7	1186.5	739.2	591.9	571.2	538.8	507.7	470.3	436.0	433.3
45°	1647.8	1687.0	1167.1	639.7	536.5	523.9	492.4	458.6	418.9	388.3	386.0
47.5°	1994.2	1938.8	1141.5	551.4	486.0	482.4	458.1	418.9	379.3	358.1	355.9
50°	2500.1	2335.2	1137.9	487.4	445.5	447.3	427.5	391.5	356.8	339.2	336.5
52.5°	3109.1	2814.0	1161.7	442.4	409.9	416.7	406.8	373.4	342.8	327.9	325.2
55°	3700.1	3244.7	1176.2	407.2	376.6	389.2	390.6	362.6	334.7	319.8	318.0
57.5°	4179.8	3569.0	1112.2	375.2	347.8	367.1	377.0	356.3	330.6	319.4	317.6
60°	4513.6	3722.2	930.2	346.9	326.6	349.6	372.1	356.8	340.5	341.9	342.8
62.5°	4619.9	3654.1	697.8	325.7	312.2	343.7	380.2	375.2	358.6	368.9	370.7
65°	4443.8	3373.1	505.9	309.0	299.6	347.8	404.5	388.7	352.3	359.9	359.9
67.5°	3854.1	2905.9	393.7	293.7	285.1	355.4	428.8	387.4	337.4	346.4	338.3
70°	3057.3	2247.8	327.9	276.6	269.8	344.2	431.1	373.4	319.8	321.6	306.3
72.5°	2028.9	1478.0	282.0	260.4	246.4	309.5	412.6	355.4	302.7	292.3	277.0
75°	994.2	737.0	246.0	240.1	215.8	269.4	387.4	338.3	284.2	268.0	259.5
77.5°	385.1	313.5	209.9	214.4	187.8	237.4	354.1	314.0	259.9	237.8	231.1
80°	186.9	177.9	172.1	178.8	154.5	202.3	323.4	292.8	237.4	213.1	203.2
82.5°	116.2	109.9	132.0	139.2	118.9	184.7	306.8	274.8	209.0	176.6	168.5
85°	59.0	63.1	88.3	95.0	85.1	146.9	252.7	206.3	150.9	125.2	126.1
87.5°	22.5	30.2	46.4	50.0	45.5	77.5	139.2	120.3	96.8	65.8	60.8
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)