

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: P939069

Luminaire Tested: **GALN-SB1C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6868 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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: 24 FT



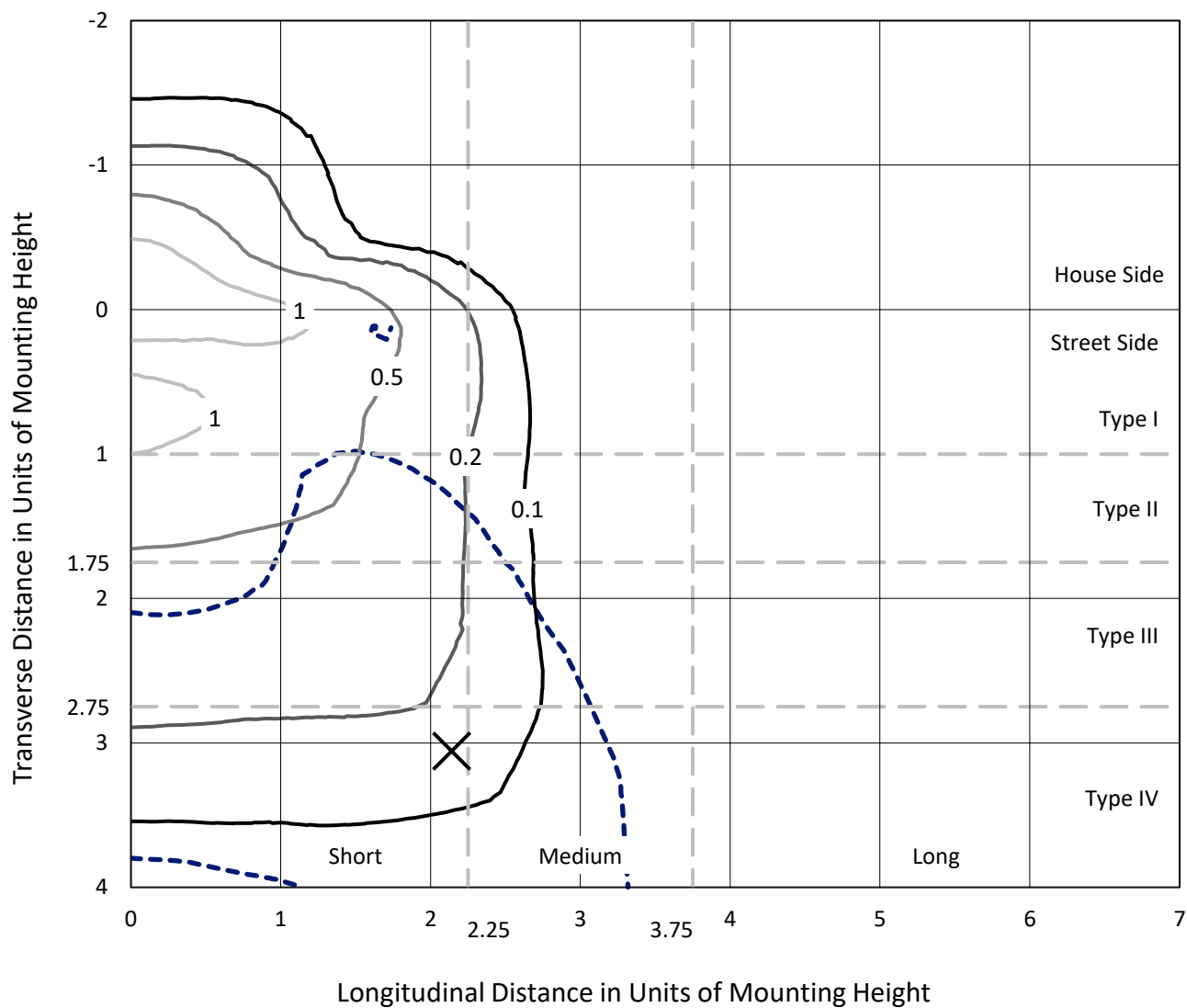
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

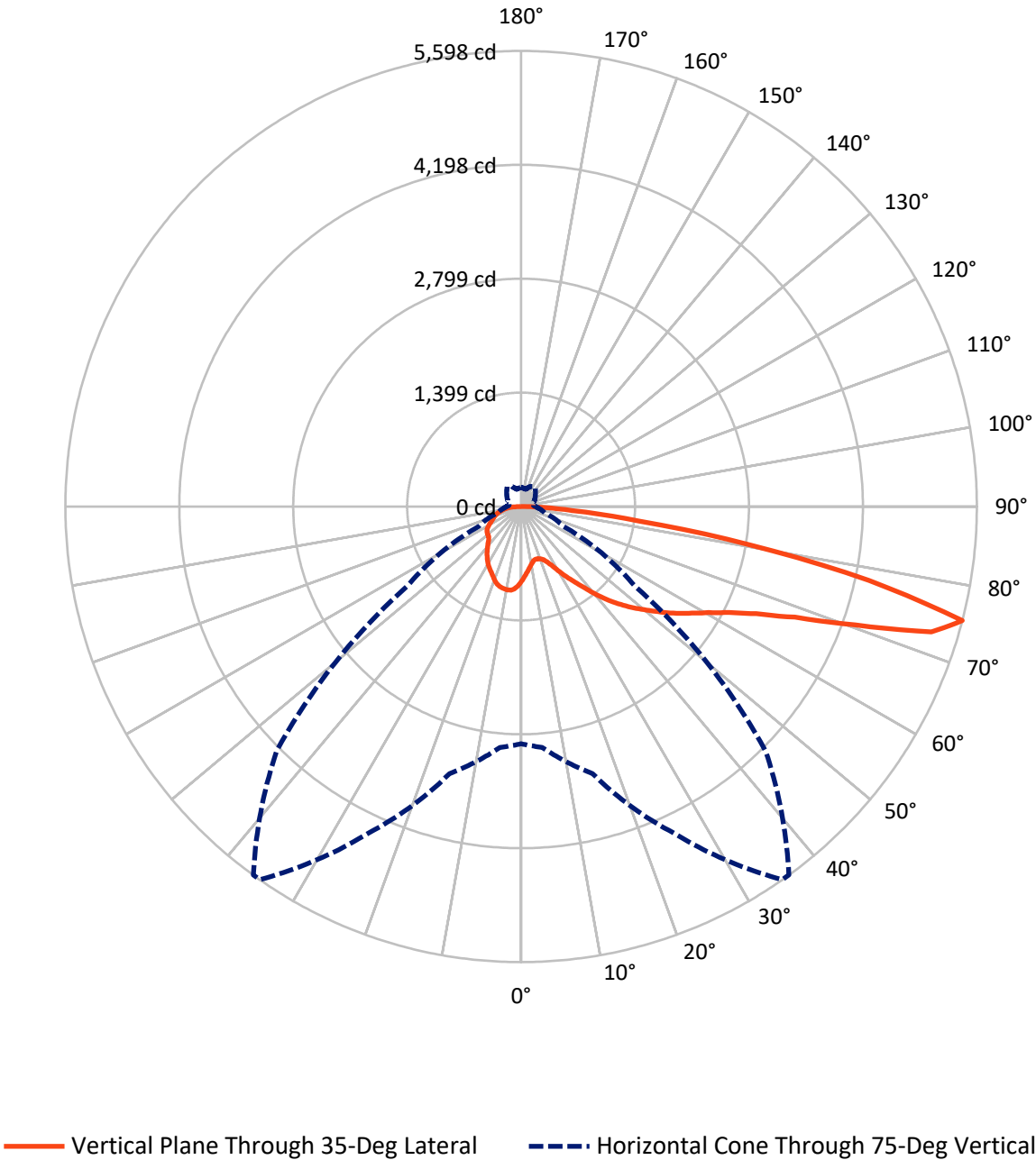


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.4	0.0	1634.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5233.6	0.0	5233.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	6868.0	0.0	6868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.3
10°-20°	249.9	3.6
20°-30°	419.7	6.1
30°-40°	652.3	9.5
40°-50°	968.2	14.1
50°-60°	1336.6	19.5
60°-70°	1621.6	23.6
70°-80°	1340.2	19.5
80°-90°	192.8	2.8
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°	6868.0	100.0
0°-180°	6868.0	100.0

Coefficient of Utilization



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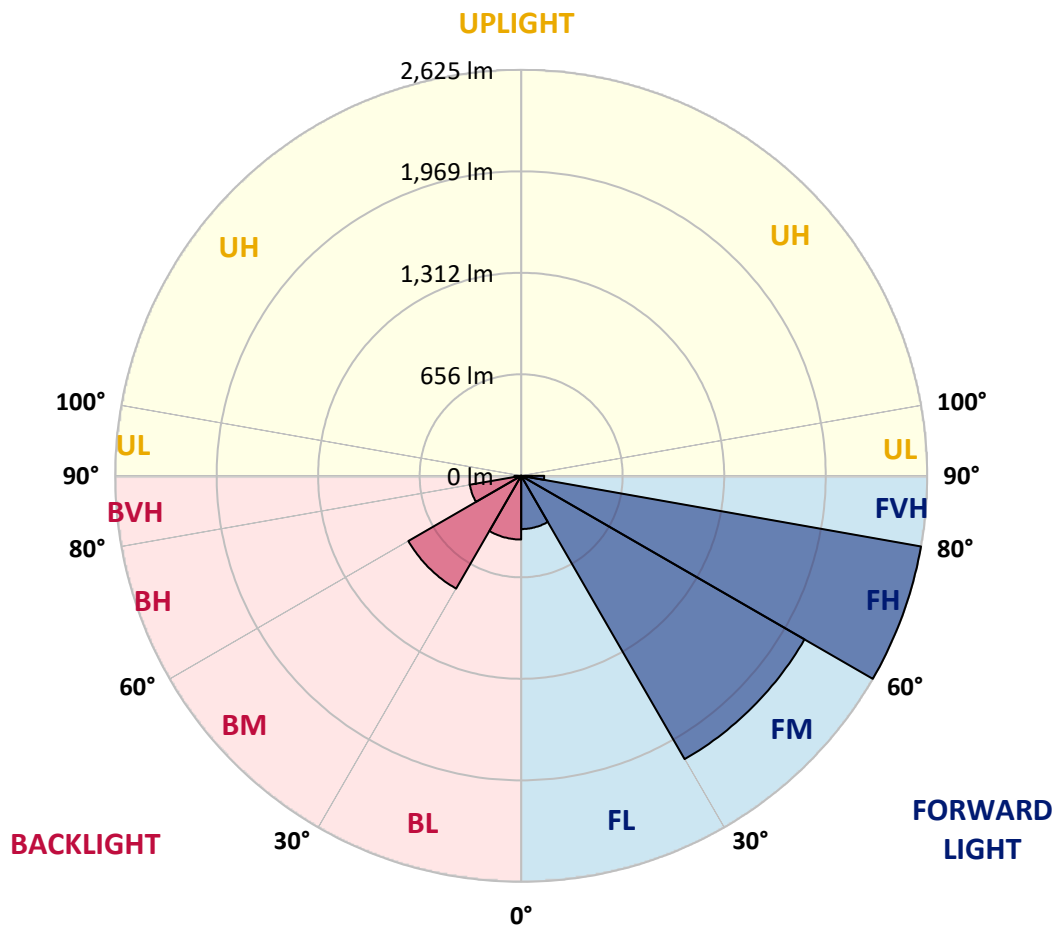
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.4	5.0			
FM	(30°-60°)	2115.0	30.8			
FH	(60°-80°)	2624.8	38.2			G2/5000
FVH	(80°-90°)	149.4	2.2			G2/225
BL	(0°-30°)	411.9	6.0	B1/500		
BM	(30°-60°)	842.1	12.3	B1/1000		
BH	(60°-80°)	337.0	4.9	B1/500		G1/500
BVH	(80°-90°)	43.4	0.6			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°	36°	45°	55°	65°	75°	85°
0°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	843.9	849.1	851.3	850.2	855.8	855.1	862.9	872.5	885.9	898.9	917.8
5°	778.9	784.5	789.3	793.8	804.6	807.9	820.2	838.7	863.2	888.1	919.3
7.5°	718.4	723.3	730.7	738.8	757.0	760.4	780.8	809.8	843.9	880.3	923.4
10°	669.0	673.9	681.7	691.0	713.6	717.7	743.7	782.3	826.8	872.9	927.8
12.5°	647.9	649.4	653.8	663.1	682.8	685.4	714.0	758.2	810.1	867.3	934.5
15°	646.8	649.7	650.1	654.9	671.3	672.4	698.8	742.6	799.7	866.2	944.5
17.5°	657.9	660.1	656.8	659.8	673.5	675.4	696.2	735.1	796.4	871.0	961.6
20°	687.6	689.5	679.4	675.4	685.4	686.9	707.3	740.0	799.7	881.0	985.0
22.5°	750.7	751.8	727.3	710.6	711.4	712.1	729.9	759.6	812.7	899.2	1014.7
25°	849.1	848.4	809.4	777.1	758.5	754.4	766.3	791.6	834.6	923.4	1053.0
27.5°	964.2	958.6	919.7	871.4	830.9	825.0	822.4	833.2	865.8	955.3	1099.7
30°	1094.2	1089.0	1047.0	983.9	927.8	918.2	893.7	888.1	912.2	998.7	1164.7
32.5°	1236.7	1233.4	1183.3	1106.8	1031.8	1020.7	979.4	964.6	983.5	1064.5	1255.3
35°	1356.3	1353.3	1311.7	1233.0	1141.3	1127.6	1085.6	1068.9	1078.6	1148.7	1373.7
37.5°	1464.3	1462.8	1427.2	1365.2	1270.5	1253.8	1206.7	1201.1	1199.2	1259.8	1517.4
40°	1564.6	1560.9	1523.7	1491.1	1420.9	1405.7	1364.1	1359.3	1345.2	1396.4	1680.0
42.5°	1675.6	1665.9	1612.1	1596.9	1577.9	1565.3	1540.4	1541.2	1510.0	1550.5	1852.3
45°	1766.2	1760.6	1705.3	1696.4	1716.8	1711.6	1733.1	1738.7	1678.2	1712.0	2031.3
47.5°	1863.5	1858.3	1811.5	1805.2	1860.5	1862.0	1938.1	1939.9	1842.3	1879.8	2210.6
50°	1983.4	1976.0	1929.5	1937.3	1999.3	2004.9	2144.1	2131.5	1993.4	2050.2	2388.5
52.5°	2062.5	2066.9	2056.9	2069.5	2154.2	2159.4	2346.9	2314.6	2143.0	2218.4	2563.0
55°	2120.8	2129.7	2160.9	2189.8	2317.5	2322.7	2538.1	2488.7	2267.0	2374.3	2727.1
57.5°	2195.8	2183.1	2241.4	2297.9	2472.7	2486.5	2724.1	2656.5	2376.9	2508.7	2839.6
60°	2303.4	2294.5	2339.8	2423.4	2646.5	2668.4	2920.9	2807.6	2457.5	2615.3	2861.5
62.5°	2521.7	2499.5	2506.5	2580.4	2865.5	2894.5	3142.9	2939.4	2497.6	2656.9	2744.1
65°	2848.1	2809.9	2774.2	2825.4	3174.1	3202.7	3393.5	3043.0	2482.8	2576.3	2432.6
67.5°	3259.1	3221.2	3177.4	3225.7	3628.5	3651.2	3702.8	3101.3	2365.8	2265.9	1882.0
70°	3598.1	3584.0	3636.3	3835.0	4354.4	4355.1	4099.3	3053.0	2045.4	1606.5	1089.0
72.5°	3553.2	3544.6	3820.5	4434.6	5269.2	5249.5	4474.7	2687.7	1377.8	724.7	408.0
75°	2914.9	2970.2	3397.6	4423.8	5597.8	5595.2	4244.9	1708.6	569.9	300.4	210.9
77.5°	1563.1	1650.7	2205.8	3266.2	4370.0	4435.7	2984.4	597.8	244.7	192.3	145.9
80°	509.8	586.3	879.2	1663.0	2839.6	2827.3	1279.1	234.6	167.4	136.3	101.0
82.5°	216.5	225.4	392.8	785.3	1457.3	1434.6	407.3	134.8	117.7	93.2	62.4
85°	84.7	94.7	173.4	363.1	631.2	617.4	147.0	66.8	75.4	60.9	37.1
87.5°	27.8	33.8	62.0	124.4	196.4	189.4	36.0	23.0	32.7	27.8	13.4
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°	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2	915.2
2.5°	923.0	928.9	936.0	946.4	955.3	962.7	970.5	975.4	977.2	982.8	982.4
5°	929.7	942.7	960.1	977.2	993.9	1003.9	1012.9	1017.3	1021.4	1024.4	1025.1
7.5°	940.8	957.5	985.0	1007.3	1021.4	1029.6	1035.5	1034.0	1035.5	1036.2	1037.4
10°	950.5	973.9	1006.5	1027.7	1038.5	1038.8	1037.4	1032.2	1029.6	1029.9	1030.7
12.5°	962.0	988.0	1023.3	1041.1	1044.0	1035.9	1029.6	1020.7	1017.3	1015.8	1015.1
15°	977.6	1007.3	1041.4	1048.1	1040.7	1030.3	1019.5	1005.1	997.6	991.7	993.5
17.5°	996.5	1029.2	1055.6	1050.7	1034.8	1017.7	1000.2	978.3	963.1	956.8	957.2
20°	1022.9	1052.2	1066.3	1045.2	1021.0	995.0	965.3	938.6	924.5	918.2	917.4
22.5°	1054.8	1083.0	1076.7	1035.5	1001.3	959.8	922.6	903.0	895.9	891.4	892.2
25°	1093.1	1117.2	1084.1	1021.4	969.0	913.0	884.4	878.1	874.7	871.4	871.4
27.5°	1142.8	1155.8	1089.7	1000.6	918.5	863.2	852.8	853.9	852.8	847.3	848.4
30°	1208.5	1205.9	1094.9	966.8	860.6	818.3	819.0	823.9	824.6	820.9	822.8
32.5°	1295.0	1268.7	1097.5	923.0	805.3	778.9	779.7	784.9	788.6	782.3	785.3
35°	1399.7	1341.8	1093.4	868.1	762.6	741.4	735.9	737.4	738.5	732.5	736.6
37.5°	1521.9	1423.9	1075.2	807.2	727.3	704.7	692.8	682.8	676.8	671.3	675.0
40°	1655.9	1513.3	1041.8	747.8	688.0	665.7	647.9	628.9	608.9	601.5	604.8
42.5°	1796.3	1605.4	1001.3	691.0	642.7	624.5	605.6	578.1	548.0	532.8	534.6
45°	1941.8	1699.7	961.6	634.9	596.3	588.5	566.6	533.5	500.9	481.6	480.1
47.5°	2084.4	1788.8	903.3	578.5	552.8	561.4	544.3	513.9	477.5	447.0	443.7
50°	2220.6	1872.4	807.9	521.3	517.6	553.2	536.9	493.1	451.5	412.5	409.2
52.5°	2355.8	1939.9	685.8	469.3	498.6	551.0	527.2	479.0	428.1	387.2	382.8
55°	2470.5	1974.8	568.1	424.7	471.2	532.0	515.7	462.2	395.0	351.6	347.9
57.5°	2535.8	1946.6	470.0	380.9	433.3	500.9	496.0	426.6	355.7	322.3	317.8
60°	2507.6	1832.3	389.8	342.7	397.3	467.1	461.9	391.3	325.6	294.1	289.6
62.5°	2352.1	1614.3	326.4	309.3	364.6	432.5	427.7	364.2	302.6	272.1	267.3
65°	2038.7	1313.2	277.0	281.4	331.6	391.0	398.0	341.6	284.4	254.7	249.9
67.5°	1554.9	951.2	238.4	257.3	299.3	350.1	370.5	325.2	269.2	241.0	236.5
70°	886.2	540.2	205.7	233.9	270.7	312.2	349.4	312.2	252.8	229.5	226.5
72.5°	336.0	248.0	177.8	210.5	243.2	280.3	326.0	291.8	233.9	216.5	213.5
75°	179.3	151.1	149.6	183.0	211.6	249.1	296.7	271.8	219.8	228.7	236.1
77.5°	122.2	106.9	125.1	156.7	177.1	214.6	265.5	241.3	190.5	189.7	174.9
80°	84.7	75.7	101.7	126.2	137.0	180.4	231.7	207.2	155.2	144.8	138.5
82.5°	50.9	49.4	76.1	94.3	96.9	139.2	192.0	173.8	127.0	110.6	111.4
85°	27.8	29.3	48.6	55.3	56.4	97.3	150.4	134.4	97.6	82.1	82.8
87.5°	7.8	10.0	17.8	21.9	27.1	50.5	89.5	79.8	49.0	34.2	34.2
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)