

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: P945226

Luminaire Tested: **GALN-SB1B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5364 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



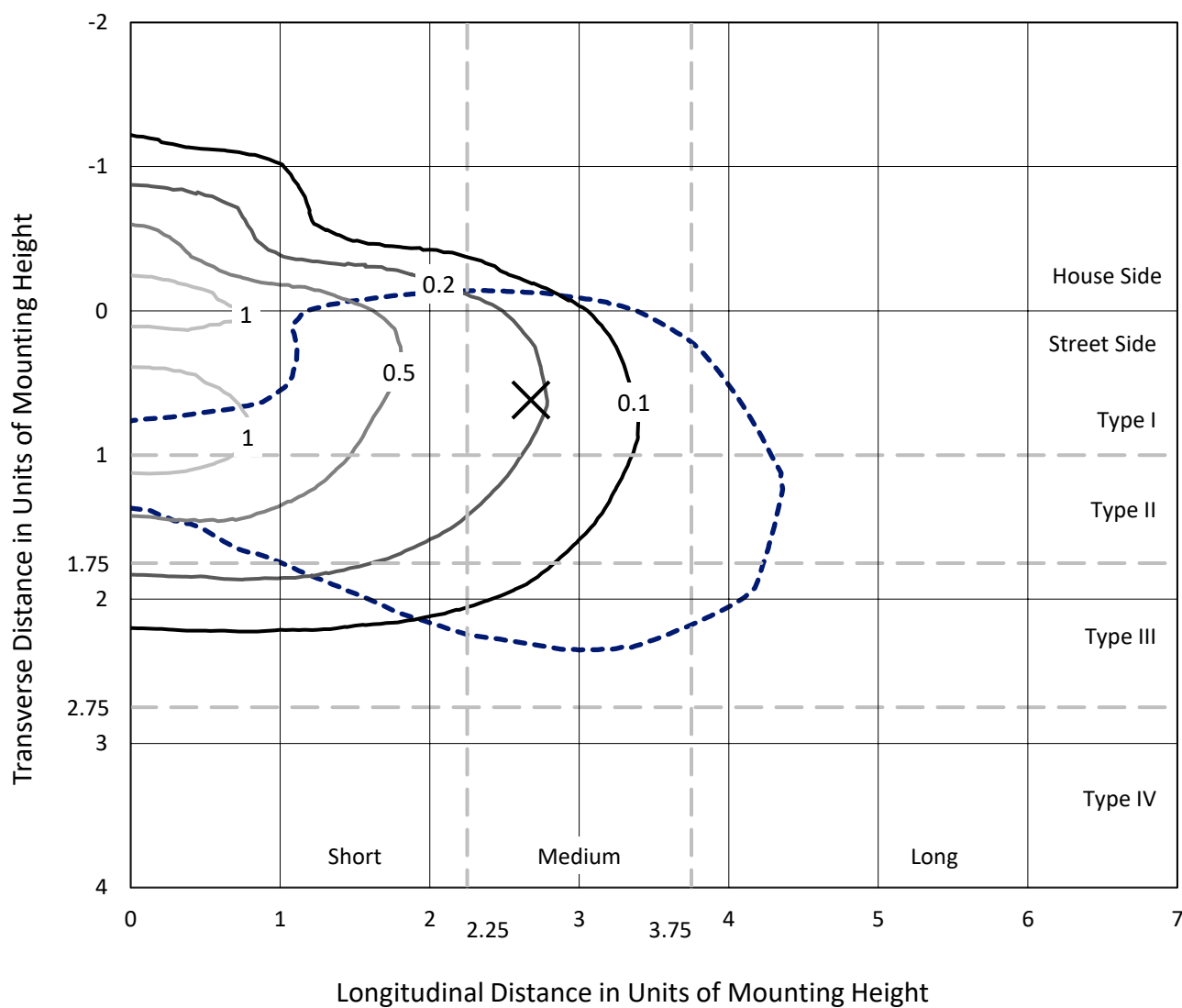
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Iso-Footcandle Lines of Horizontal Illumination

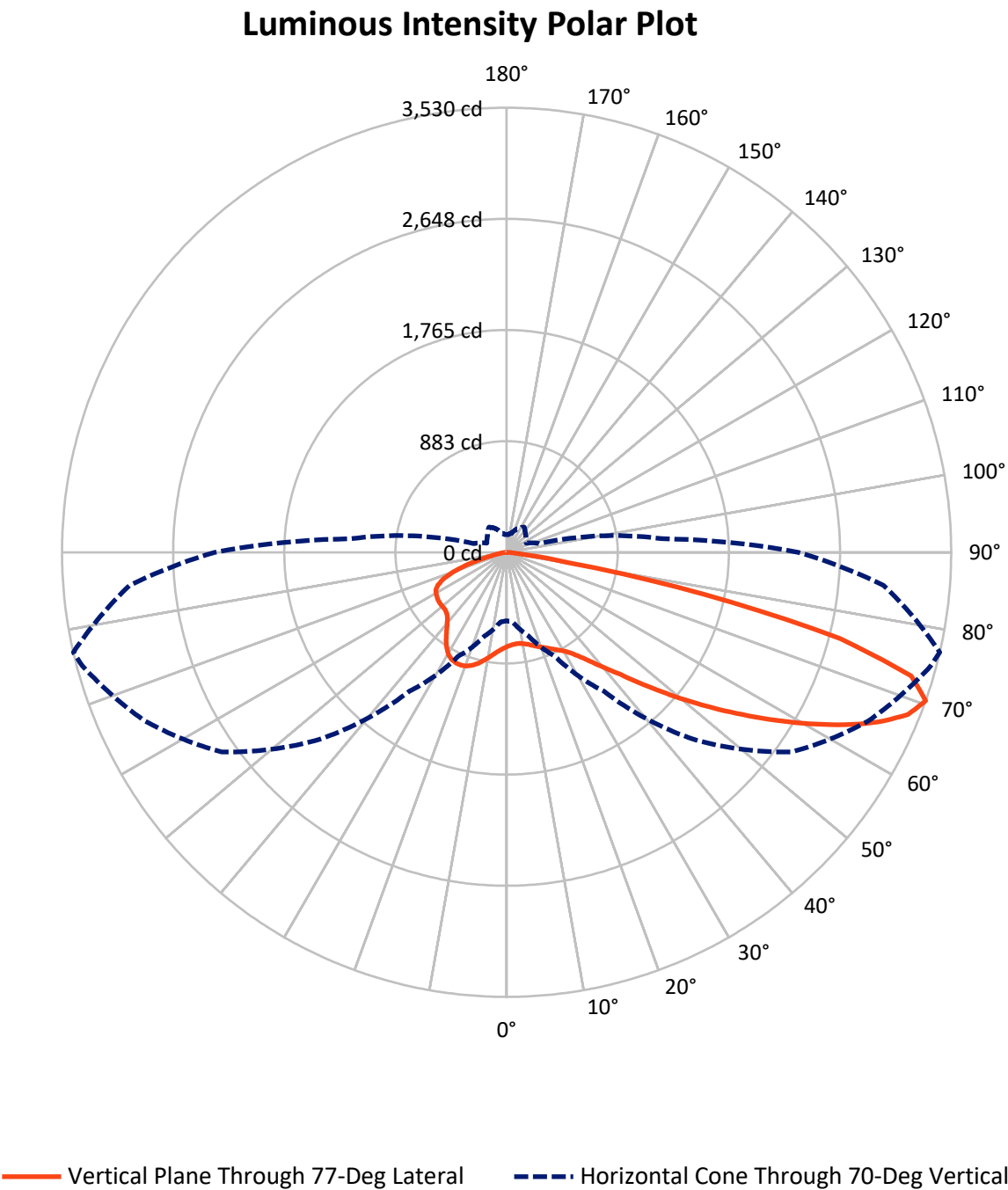
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.6	0.0	1174.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4189.4	0.0	4189.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	5364.0	0.0	5364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.3
10°-20°	206.0	3.8
20°-30°	352.3	6.6
30°-40°	566.5	10.6
40°-50°	884.4	16.5
50°-60°	1181.4	22.0
60°-70°	1259.1	23.5
70°-80°	775.1	14.5
80°-90°	67.9	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°	5364.0	100.0
0°-180°	5364.0	100.0

Coefficient of Utilization



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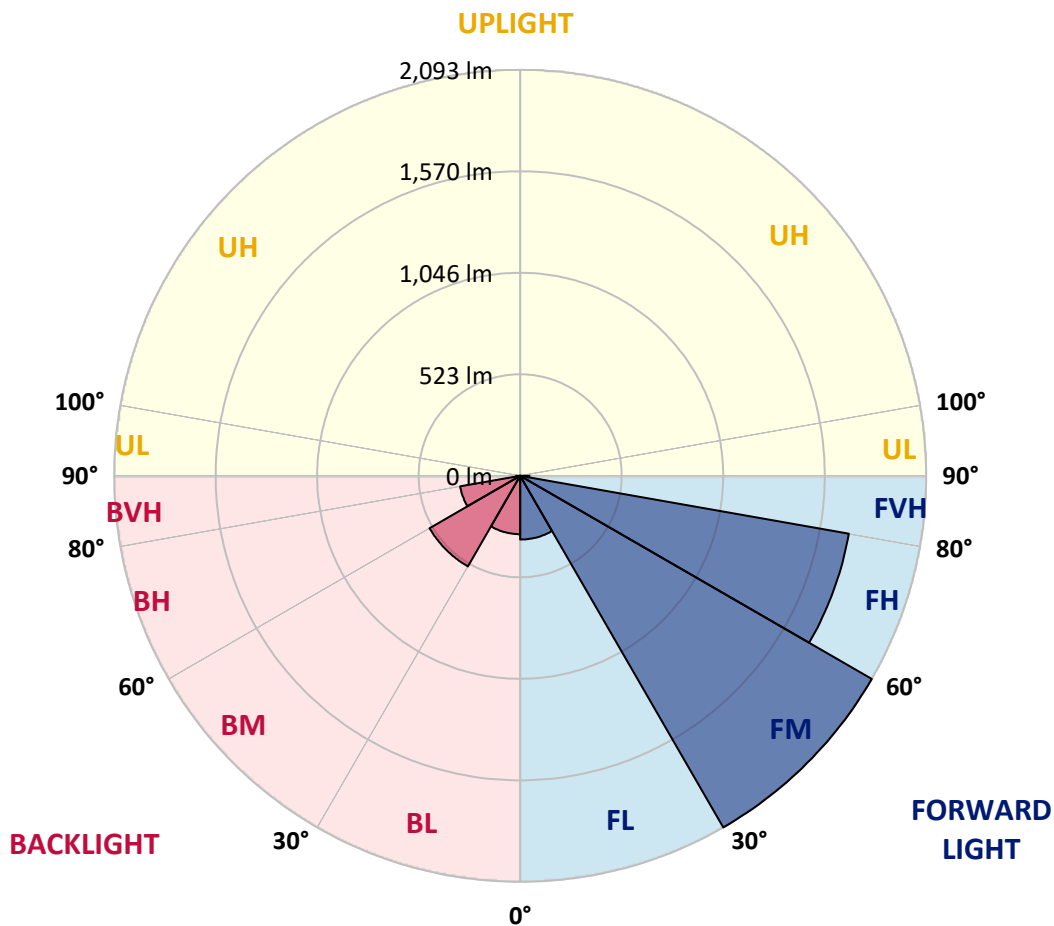
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.6	6.1			
FM	(30°-60°)	2092.9	39.0			
FH	(60°-80°)	1720.3	32.1			G1/1800
FVH	(80°-90°)	47.5	0.9			G1/100
BL	(0°-30°)	301.0	5.6	B1/500		
BM	(30°-60°)	539.3	10.1	B1/1000		
BH	(60°-80°)	313.9	5.9	B1/500		G1/500
BVH	(80°-90°)	20.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	689.8	689.5	693.1	694.2	700.8	705.5	714.3	723.6	735.7	737.1	744.5
5°	650.0	650.0	654.1	658.5	667.0	676.4	689.8	706.0	726.9	730.2	748.6
7.5°	616.2	618.4	622.0	630.5	640.4	653.8	674.4	697.5	725.0	730.2	759.9
10°	589.0	591.5	595.9	602.7	617.6	636.2	663.2	692.8	729.6	737.9	776.3
12.5°	580.5	582.9	585.4	590.6	604.4	626.4	658.5	695.0	740.9	749.2	798.9
15°	600.3	603.3	601.4	600.0	607.1	627.2	660.7	703.0	754.9	766.7	826.6
17.5°	645.9	647.0	642.6	629.6	628.6	639.3	671.1	714.0	772.5	785.4	854.6
20°	719.5	717.6	708.5	682.9	668.4	666.2	689.0	730.5	790.6	804.4	884.9
22.5°	819.5	817.3	799.1	758.8	726.3	704.9	714.8	751.9	811.0	826.3	914.3
25°	944.2	941.2	914.5	859.6	809.3	756.3	750.0	780.2	836.0	850.2	945.0
27.5°	1089.8	1087.3	1058.5	986.0	913.4	826.6	793.7	813.4	862.1	878.3	979.6
30°	1246.4	1253.5	1202.4	1124.4	1032.7	918.4	852.4	854.4	895.8	910.4	1021.7
32.5°	1430.4	1442.8	1381.3	1282.4	1157.1	1018.1	926.6	911.5	945.0	957.1	1074.7
35°	1612.9	1626.9	1575.8	1466.4	1322.2	1135.7	1004.1	977.2	1010.4	1023.6	1145.0
37.5°	1770.5	1789.2	1762.9	1667.8	1498.9	1277.4	1105.2	1054.4	1090.9	1107.4	1239.5
40°	1895.0	1923.6	1921.6	1862.3	1707.1	1449.4	1233.5	1149.7	1190.9	1208.8	1354.1
42.5°	1996.1	2020.8	2042.2	2039.2	1924.4	1644.7	1384.3	1273.6	1304.9	1325.5	1482.9
45°	2065.9	2092.2	2138.4	2188.1	2133.4	1853.8	1557.1	1420.6	1449.1	1480.2	1636.5
47.5°	2128.2	2158.2	2218.1	2296.9	2310.9	2063.7	1746.4	1591.7	1617.8	1649.9	1790.6
50°	2133.7	2159.5	2252.4	2364.2	2437.0	2265.3	1949.7	1783.7	1808.2	1842.5	1955.7
52.5°	2001.0	2041.7	2203.8	2362.3	2495.0	2434.0	2151.6	1983.5	2010.9	2052.1	2126.6
55°	1553.2	1612.9	2061.2	2288.7	2474.4	2543.0	2343.6	2195.8	2231.0	2274.1	2298.6
57.5°	1337.9	1364.0	1636.2	2154.6	2380.4	2571.3	2505.7	2410.4	2467.0	2514.2	2480.4
60°	1202.4	1224.1	1385.1	1946.1	2256.8	2526.6	2631.0	2610.4	2708.2	2764.5	2666.4
62.5°	1057.4	1078.0	1224.4	1624.9	2098.6	2452.1	2710.1	2795.0	2955.4	3016.9	2841.7
65°	913.4	931.0	1071.4	1365.3	1897.5	2377.7	2751.0	2954.6	3184.2	3248.0	2987.3
67.5°	753.0	767.6	900.2	1151.9	1653.0	2275.7	2771.3	3080.1	3383.4	3438.1	3059.2
70°	543.4	554.7	691.7	911.0	1346.1	2100.5	2763.1	3169.1	3486.7	3530.4	3004.8
72.5°	256.9	267.0	428.0	591.5	950.8	1759.3	2596.3	3098.5	3381.8	3360.1	2671.9
75°	137.1	145.9	245.9	324.4	502.2	1206.0	2124.7	2669.1	2839.7	2734.3	1974.7
77.5°	92.9	99.7	152.2	194.8	229.4	572.5	1365.6	1848.0	1778.0	1603.8	989.0
80°	73.6	80.8	124.7	131.9	111.0	206.9	564.3	855.5	614.5	491.5	281.3
82.5°	56.6	64.6	104.9	95.6	60.4	84.9	164.3	270.6	157.4	119.8	68.1
85°	34.6	43.1	82.4	61.0	34.1	38.7	55.8	75.3	48.1	40.1	24.4
87.5°	17.6	24.7	41.8	22.3	15.4	9.1	14.8	14.8	12.6	11.0	6.3
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°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	751.1	756.6	765.9	774.7	781.6	788.2	794.8	798.3	799.4	803.8	806.3
5°	759.9	770.0	788.2	805.2	815.9	822.5	827.2	829.9	830.5	831.8	834.0
7.5°	776.1	792.3	817.6	834.6	842.6	842.0	840.1	833.2	830.5	828.0	828.5
10°	798.9	820.3	851.3	863.2	858.2	845.0	828.0	807.9	798.6	789.5	786.8
12.5°	827.2	854.4	884.9	884.3	859.9	826.1	786.5	755.7	736.2	722.2	718.9
15°	861.5	892.8	916.2	897.5	843.9	783.2	725.3	685.1	667.6	652.2	650.5
17.5°	896.9	930.5	941.2	893.4	803.8	719.8	654.1	622.5	605.2	597.0	599.4
20°	931.6	964.8	956.0	869.8	742.8	647.8	589.3	572.0	568.4	570.3	569.5
22.5°	968.1	997.8	959.0	824.1	665.1	574.2	542.0	542.6	550.5	556.3	557.7
25°	1005.5	1025.5	951.1	758.2	581.6	520.0	512.1	520.9	536.5	547.8	550.8
27.5°	1041.4	1050.2	933.8	676.6	509.9	481.3	482.7	500.8	524.4	540.1	543.9
30°	1082.1	1072.2	900.5	584.9	460.1	448.1	459.6	480.8	504.4	518.4	521.7
32.5°	1128.0	1091.2	847.8	500.0	425.0	421.4	440.4	454.1	464.5	468.7	470.9
35°	1185.1	1117.8	780.2	440.4	393.4	401.9	420.0	413.2	409.1	406.9	409.1
37.5°	1259.3	1153.8	701.1	401.6	367.8	387.9	395.3	373.9	357.7	349.7	351.6
40°	1348.6	1206.6	625.0	371.7	351.6	375.8	362.9	337.1	316.5	305.2	306.0
42.5°	1447.8	1261.8	561.0	349.2	342.6	365.9	339.0	308.2	275.0	271.4	275.0
45°	1551.9	1318.6	517.3	331.9	338.2	357.4	325.3	275.5	251.9	266.5	274.2
47.5°	1656.0	1370.8	490.9	318.9	336.0	347.8	313.2	257.4	240.7	261.8	271.7
50°	1771.9	1417.5	479.1	309.6	333.5	343.9	295.0	252.7	228.8	242.8	253.3
52.5°	1887.0	1453.8	470.3	300.3	329.9	340.9	286.3	247.2	214.6	215.4	221.1
55°	2001.9	1477.4	460.7	287.9	322.0	334.3	285.4	241.2	203.8	200.0	202.7
57.5°	2124.4	1490.9	448.9	274.2	308.2	317.6	284.6	236.5	200.5	194.2	195.0
60°	2249.1	1510.7	433.5	257.4	289.8	297.5	282.7	234.9	198.6	187.9	188.7
62.5°	2360.9	1517.5	415.1	241.5	266.2	277.7	278.6	233.5	193.4	175.0	175.0
65°	2434.3	1487.9	383.0	223.3	240.7	257.4	270.6	228.8	184.1	165.7	165.7
67.5°	2431.2	1403.3	332.7	200.0	215.9	234.9	259.1	220.9	172.8	154.1	154.9
70°	2318.1	1236.2	268.9	172.8	188.7	210.7	244.2	209.1	159.3	141.5	143.1
72.5°	1988.1	967.6	195.3	140.9	157.1	185.7	225.0	194.8	145.6	130.2	129.4
75°	1420.3	612.3	132.4	108.2	122.2	157.4	201.1	178.0	133.0	130.8	123.3
77.5°	725.5	292.6	87.6	79.1	85.2	124.2	169.0	159.1	134.9	108.0	96.2
80°	236.0	108.0	55.2	53.8	56.6	82.7	130.8	130.5	102.2	73.3	64.8
82.5°	75.3	46.4	36.0	34.6	33.2	51.9	91.2	103.3	69.0	46.4	46.2
85°	29.9	27.7	21.2	19.5	14.0	24.4	47.8	68.7	51.4	33.5	34.3
87.5°	11.0	11.0	5.8	4.1	3.0	8.2	12.9	20.6	29.4	17.3	17.0
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)