

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: P946278

Luminaire Tested: **GALN-SB2A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7396 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

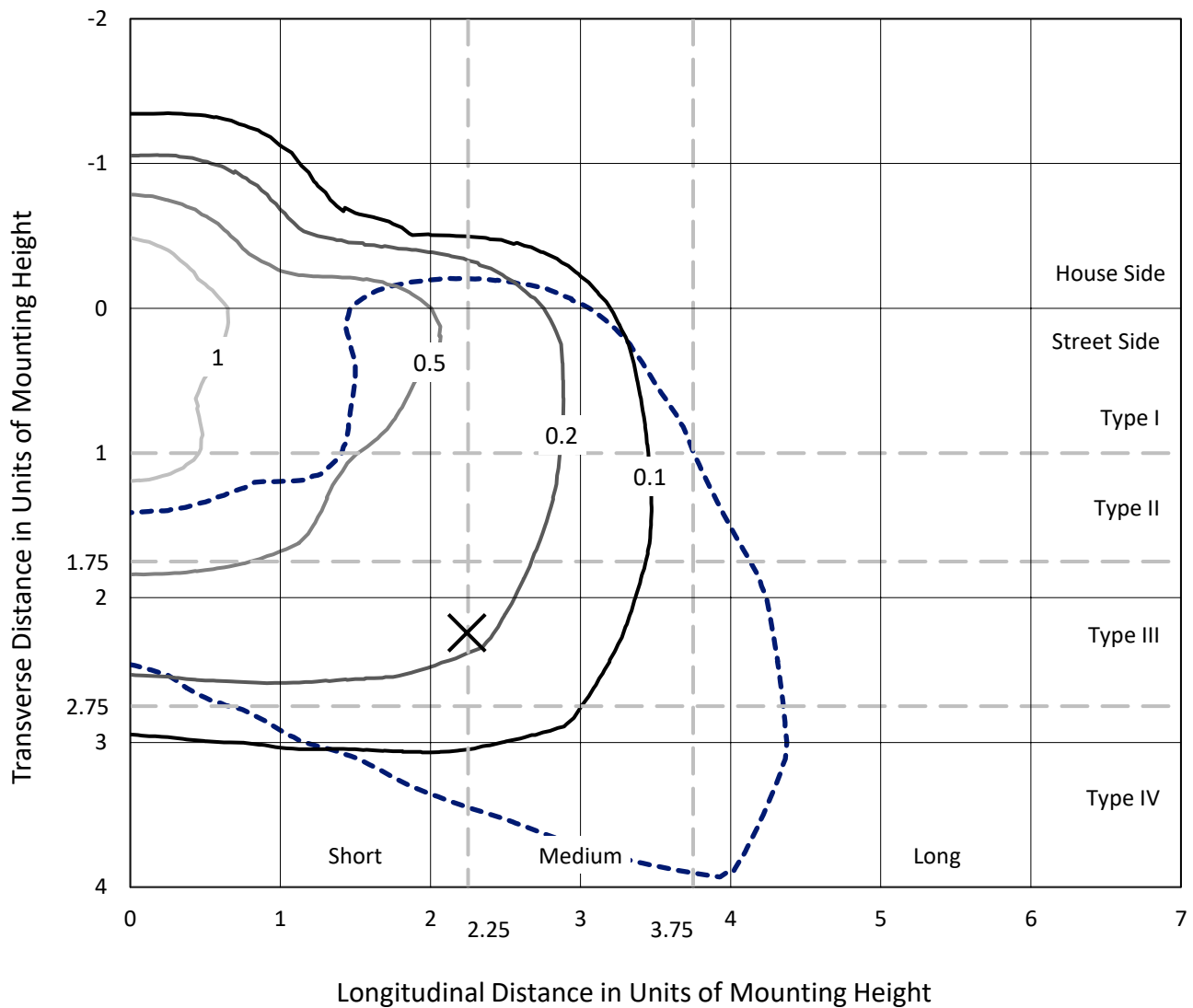


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

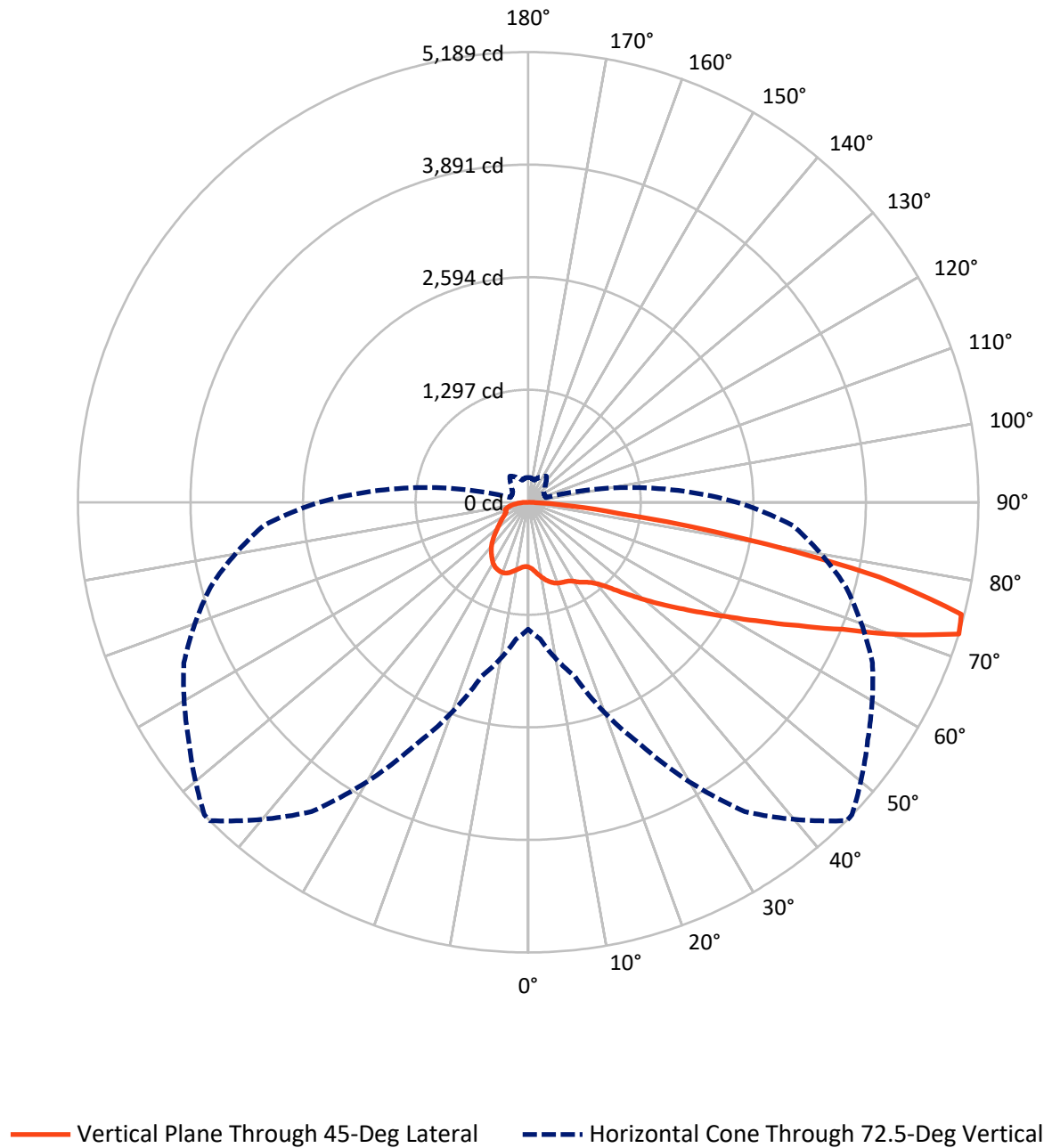


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1672.0	0.0	1672.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5724.0	0.0	5724.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	7396.0	0.0	7396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.0
10°-20°	253.2	3.4
20°-30°	440.4	6.0
30°-40°	631.4	8.5
40°-50°	889.0	12.0
50°-60°	1361.8	18.4
60°-70°	1972.7	26.7
70°-80°	1575.3	21.3
80°-90°	196.2	2.7
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°	7396.0	100.0
0°-180°	7396.0	100.0

Coefficient of Utilization



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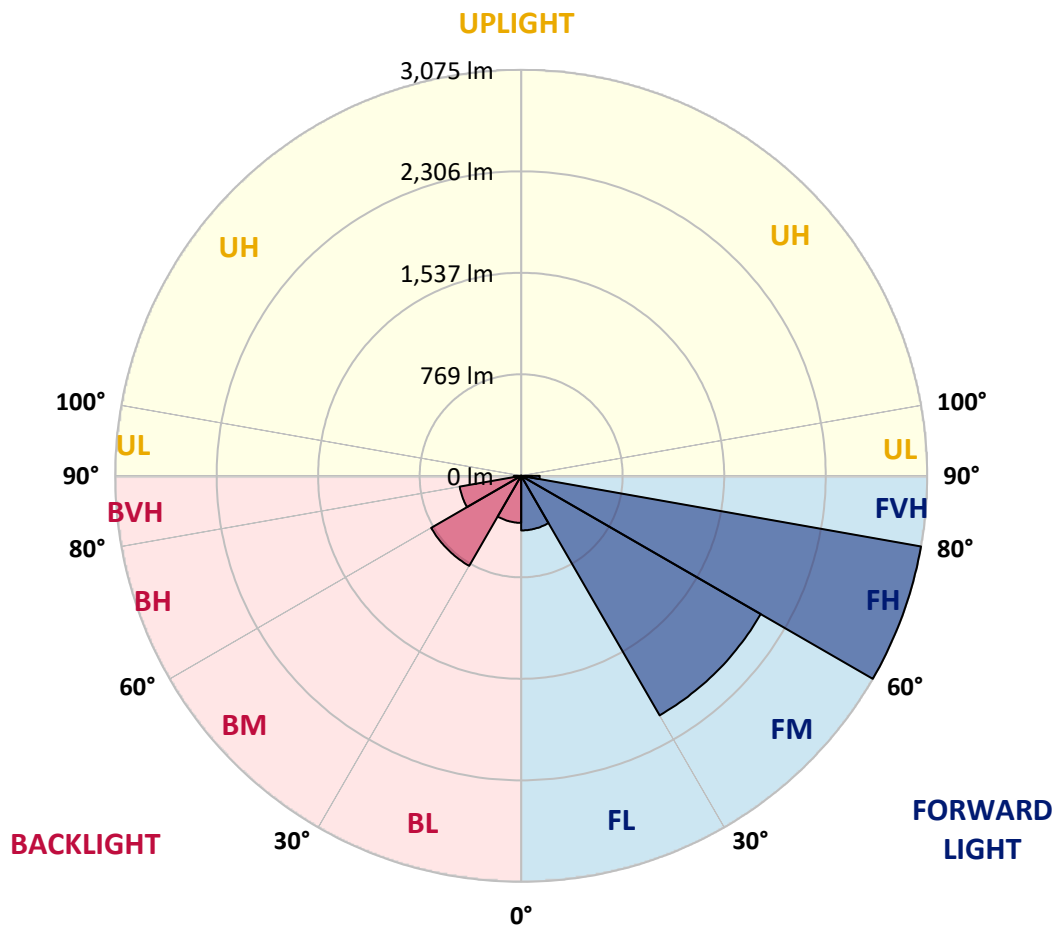
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.6	5.6			
FM	(30°-60°)	2094.9	28.3			
FH	(60°-80°)	3074.7	41.6			G2/5000
FVH	(80°-90°)	140.8	1.9			G2/225
BL	(0°-30°)	356.0	4.8	B1/500		
BM	(30°-60°)	787.3	10.6	B1/1000		
BH	(60°-80°)	473.3	6.4	B1/500		G1/500
BVH	(80°-90°)	55.4	0.7			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°	46°	55°	65°	75°	85°
0°	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1
2.5°	775.3	780.4	775.7	771.4	769.5	764.4	764.0	760.9	759.0	753.5	752.0
5°	829.5	836.1	828.3	819.7	812.0	799.5	797.9	789.0	778.8	767.2	760.5
7.5°	890.7	896.5	887.5	874.7	861.0	840.4	840.0	823.6	807.7	787.8	776.5
10°	944.0	951.8	939.8	922.2	905.1	881.7	879.0	860.3	840.0	814.3	797.2
12.5°	991.2	996.6	984.9	963.5	943.6	920.3	916.8	896.1	873.5	844.3	822.5
15°	1028.6	1035.6	1020.0	997.0	976.0	953.0	949.9	931.2	908.6	877.8	849.7
17.5°	1053.1	1059.0	1043.0	1017.3	997.0	977.9	975.6	960.0	940.1	909.0	879.0
20°	1062.5	1068.7	1052.0	1025.9	1007.2	992.3	991.2	979.9	966.2	937.8	907.4
22.5°	1071.8	1077.7	1055.9	1028.6	1012.2	1002.9	1002.5	995.1	989.6	966.2	936.6
25°	1109.6	1111.2	1082.0	1042.6	1019.2	1011.1	1010.7	1010.3	1012.6	994.3	968.2
27.5°	1142.4	1142.0	1117.0	1080.0	1043.8	1026.6	1026.2	1030.1	1037.5	1022.3	1000.9
30°	1190.3	1186.0	1156.4	1117.8	1084.7	1058.2	1055.9	1052.3	1058.2	1046.1	1033.6
32.5°	1292.0	1278.3	1230.4	1161.8	1118.6	1098.3	1095.2	1073.4	1075.7	1068.3	1062.1
35°	1437.7	1419.8	1355.9	1245.2	1160.7	1131.8	1130.3	1102.6	1097.9	1091.3	1093.6
37.5°	1611.1	1588.8	1514.4	1366.0	1233.1	1170.8	1168.5	1143.5	1124.4	1117.4	1130.7
40°	1785.2	1757.2	1695.6	1513.3	1339.9	1235.9	1228.5	1190.7	1168.8	1157.2	1185.2
42.5°	1954.3	1930.9	1878.3	1678.5	1471.6	1330.9	1314.6	1249.9	1233.5	1222.6	1273.3
45°	2103.9	2082.9	2044.3	1855.0	1625.9	1460.3	1444.3	1338.7	1333.7	1333.7	1406.9
47.5°	2225.5	2220.8	2179.9	2035.0	1807.8	1607.6	1579.9	1462.2	1475.9	1496.9	1596.6
50°	2360.3	2347.4	2303.8	2212.2	2021.7	1776.3	1753.7	1613.8	1664.8	1722.5	1870.9
52.5°	2484.2	2491.2	2442.5	2396.9	2263.3	1964.4	1924.7	1792.6	1902.9	1998.3	2192.4
55°	2611.6	2612.0	2598.3	2592.1	2516.5	2172.5	2128.9	2007.7	2183.0	2301.5	2567.2
57.5°	2731.2	2732.0	2752.2	2807.2	2810.3	2412.5	2363.0	2271.8	2494.3	2615.1	2953.7
60°	2838.0	2843.4	2898.7	3027.3	3068.6	2687.6	2640.8	2583.9	2816.1	2937.7	3360.0
62.5°	2873.8	2893.7	3016.8	3199.5	3323.8	3025.0	2979.0	2945.1	3154.3	3267.3	3699.8
65°	2813.0	2858.6	3096.7	3341.7	3586.4	3425.9	3380.3	3343.3	3505.8	3612.1	3978.7
67.5°	2663.8	2722.6	3092.0	3490.9	3905.1	3908.2	3865.8	3778.9	3882.5	3923.4	4069.5
70°	2270.7	2358.7	2819.6	3546.7	4271.0	4567.8	4526.9	4303.3	4258.5	4060.6	3813.9
72.5°	1463.0	1581.4	2076.3	3088.1	4352.4	5188.5	5186.2	4776.7	4377.3	3794.1	3058.9
75°	533.8	606.2	964.7	1938.3	3653.4	5156.9	5172.1	4695.6	3995.9	2930.7	1905.6
77.5°	194.4	212.7	314.8	744.9	2246.9	4137.7	4169.3	3753.9	2844.2	1470.8	755.1
80°	102.1	112.2	161.3	289.1	962.7	2457.3	2506.8	2230.9	1336.8	443.0	226.4
82.5°	56.5	61.2	90.4	157.0	433.6	1050.8	1080.4	881.3	470.3	187.8	93.5
85°	30.4	32.3	42.5	85.7	212.0	364.3	372.5	263.4	187.4	110.3	45.2
87.5°	9.0	10.9	14.0	27.3	83.0	81.8	83.8	52.2	74.0	55.7	14.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1	746.1
2.5°	749.6	748.5	744.2	742.2	739.9	739.5	741.4	741.8	742.2	742.6	744.2
5°	756.6	752.7	748.8	746.5	747.3	747.7	751.6	754.3	756.2	757.8	758.6
7.5°	770.3	767.2	760.5	760.1	761.3	764.8	769.9	776.1	779.6	782.3	783.1
10°	790.5	784.7	776.9	778.1	780.4	785.5	796.0	801.0	806.9	812.0	810.8
12.5°	811.2	806.1	797.2	797.9	801.8	810.8	820.9	827.2	831.0	834.9	836.5
15°	838.1	829.1	819.4	819.4	826.4	836.1	840.8	845.9	848.2	852.5	854.0
17.5°	865.7	854.0	841.2	840.4	849.0	853.6	856.4	857.2	857.9	862.6	864.2
20°	893.4	880.5	862.2	860.7	862.6	861.8	861.4	860.7	861.8	867.7	870.0
22.5°	920.7	905.9	880.5	873.5	868.1	860.7	860.3	859.9	860.7	866.5	870.4
25°	952.6	934.7	900.8	879.8	861.4	851.3	852.5	852.9	853.6	858.3	864.6
27.5°	987.3	967.4	919.5	877.8	844.7	837.7	835.7	836.9	839.6	847.0	854.4
30°	1022.0	998.6	936.6	870.0	823.6	813.9	807.7	810.4	819.0	826.4	834.6
32.5°	1053.5	1030.1	950.3	852.9	796.8	781.6	773.4	776.9	785.5	788.2	797.9
35°	1090.5	1064.0	956.1	825.6	767.5	744.2	733.3	728.2	732.5	729.7	738.3
37.5°	1131.8	1104.2	955.3	789.7	733.3	706.4	691.2	672.1	663.1	653.8	659.6
40°	1193.0	1153.3	946.0	746.5	690.8	666.2	639.0	606.6	586.4	568.1	569.2
42.5°	1276.4	1221.4	928.8	699.0	642.9	619.9	582.9	545.1	513.1	482.7	480.0
45°	1400.7	1310.7	907.4	648.3	591.0	568.4	528.3	485.8	449.6	410.7	406.0
47.5°	1579.9	1430.7	887.2	590.7	536.5	515.9	479.6	440.3	397.4	359.6	355.3
50°	1826.1	1602.9	868.5	534.6	482.7	467.1	438.3	398.2	354.9	324.5	322.6
52.5°	2139.4	1837.0	860.7	480.4	432.5	426.6	403.6	366.2	325.3	299.6	297.7
55°	2499.0	2117.2	860.7	428.6	388.4	390.4	374.4	339.7	304.3	281.3	279.0
57.5°	2866.0	2400.8	845.1	380.7	351.0	359.2	349.1	318.7	286.8	263.0	259.1
60°	3204.2	2638.5	782.0	337.0	317.9	330.8	324.2	298.1	259.1	239.2	236.1
62.5°	3464.1	2772.5	660.4	302.3	290.7	305.5	302.0	270.8	254.0	245.8	243.1
65°	3594.2	2750.7	504.9	271.6	267.7	290.7	283.2	282.1	268.8	259.5	256.4
67.5°	3514.3	2562.9	366.2	249.0	254.4	277.0	305.5	310.1	285.6	267.3	264.2
70°	3164.1	2223.1	272.7	227.5	237.7	277.4	348.3	324.5	280.1	258.7	255.2
72.5°	2407.0	1657.8	211.6	204.9	215.8	279.4	367.4	317.9	264.5	286.0	283.6
75°	1376.5	910.1	169.9	177.3	188.6	261.0	357.7	300.8	252.5	262.6	262.6
77.5°	524.8	349.9	140.3	150.0	151.6	227.9	342.1	299.6	240.4	234.5	213.9
80°	182.0	136.8	116.1	119.2	117.3	202.6	328.1	260.7	196.8	176.1	170.3
82.5°	74.4	68.2	91.9	88.1	83.4	157.4	264.9	213.1	160.9	142.2	140.7
85°	32.3	43.2	60.8	53.4	48.3	109.1	212.3	180.4	136.0	117.3	116.9
87.5°	6.6	16.4	25.7	24.2	24.9	72.9	150.8	128.2	96.2	72.1	56.5
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)