

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: P939228

Luminaire Tested: **GALN-SB1D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6367 lumens
Efficiency: N/A
Efficacy: 80.0 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): 79.6
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



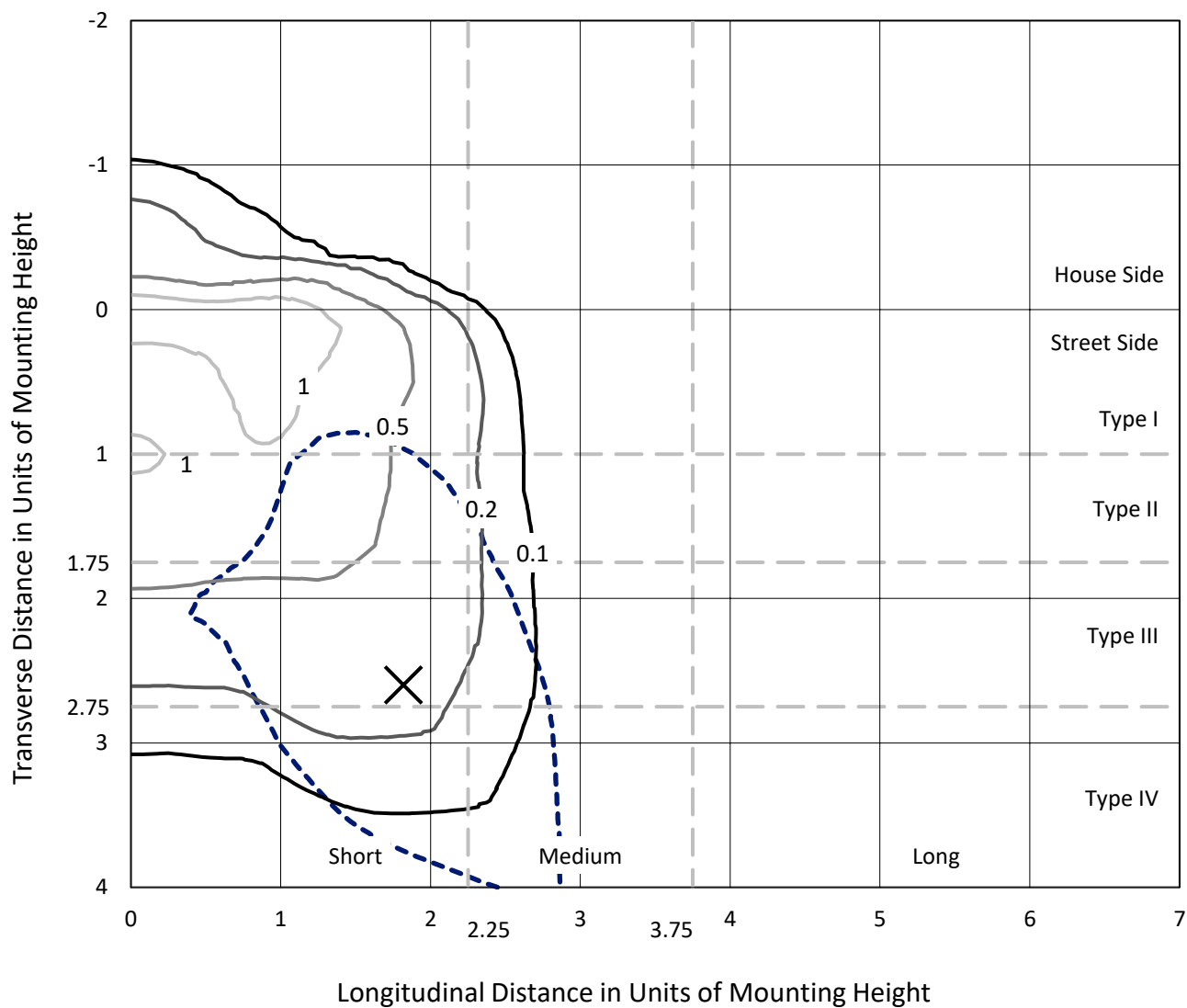
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

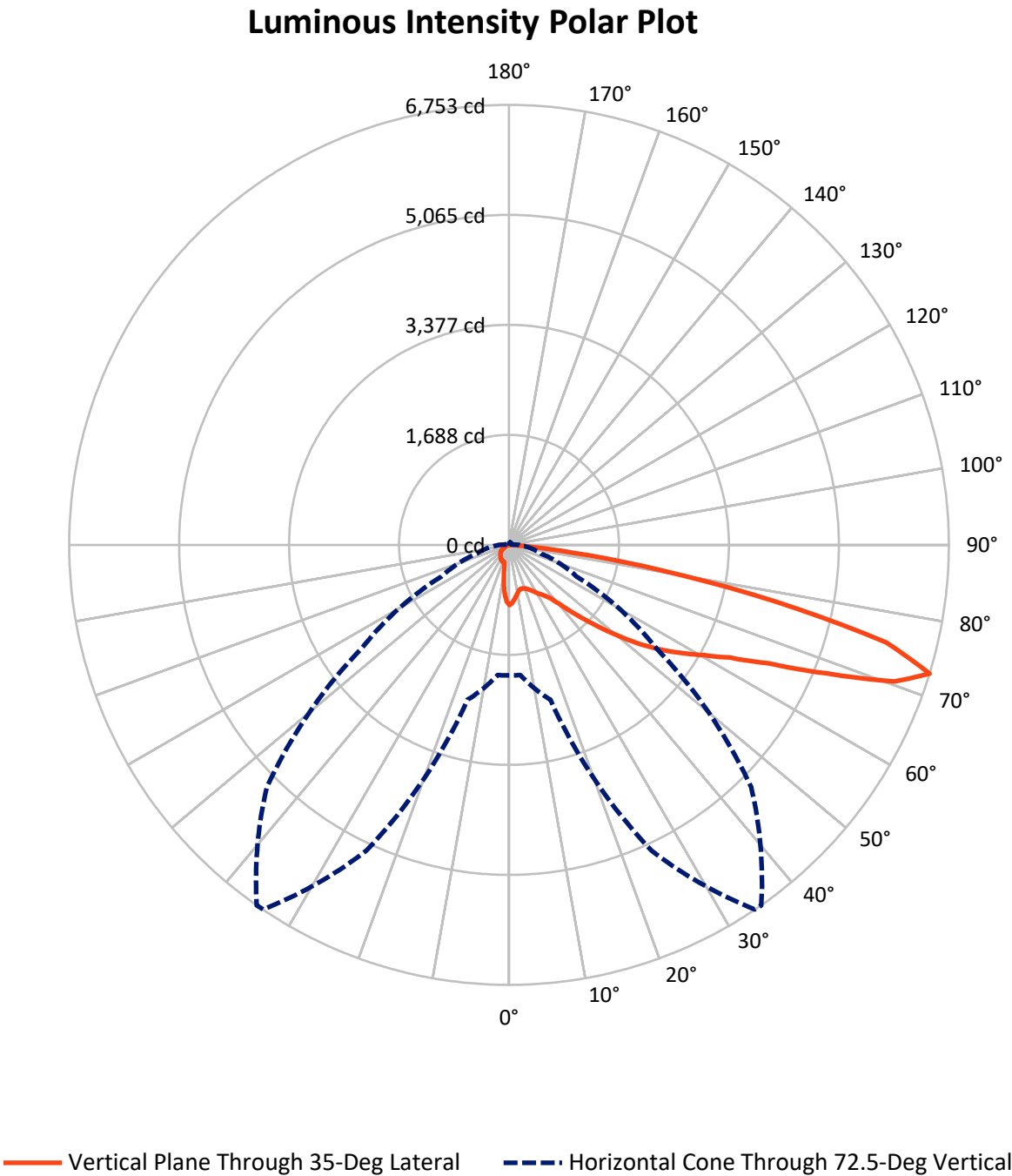
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.6	0.0	716.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	5650.4	0.0	5650.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	6367.0	0.0	6367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	1.2
10°-20°	177.4	2.8
20°-30°	288.2	4.5
30°-40°	480.8	7.6
40°-50°	909.7	14.3
50°-60°	1445.5	22.7
60°-70°	1788.2	28.1
70°-80°	1111.6	17.5
80°-90°	89.8	1.4
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°	6367.0	100.0
0°-180°	6367.0	100.0

Coefficient of Utilization



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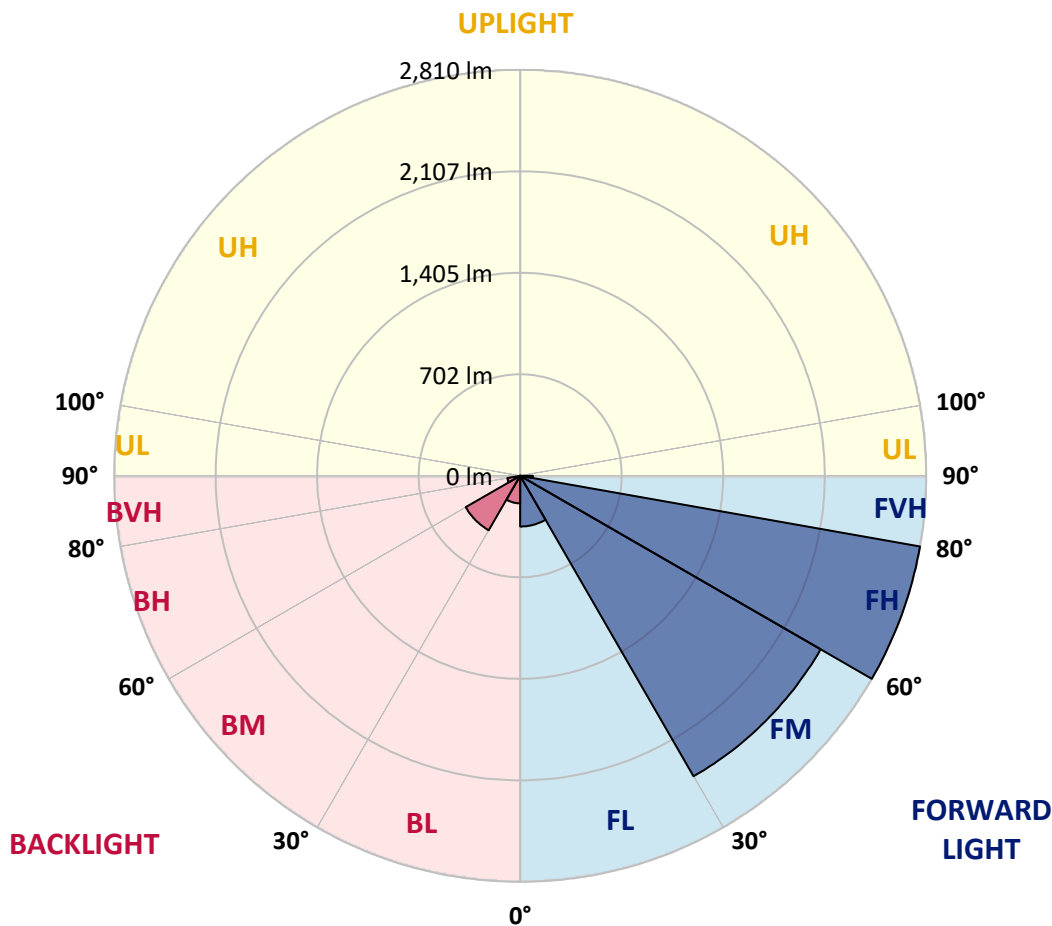
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.0	5.5			
FM	(30°-60°)	2401.0	37.7			
FH	(60°-80°)	2809.8	44.1			G2/5000
FVH	(80°-90°)	88.6	1.4			G1/100
BL	(0°-30°)	190.4	3.0	B1/500		
BM	(30°-60°)	435.0	6.8	B1/1000		
BH	(60°-80°)	89.9	1.4	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
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°	34°	35°	45°	55°	65°	75°	85°
0°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	881.7	889.2	890.6	892.9	892.9	895.7	900.4	906.9	917.7	923.3	927.0
5°	812.7	818.3	825.3	830.9	841.6	843.0	861.2	878.9	903.7	922.3	935.4
7.5°	743.2	749.7	759.0	772.6	786.6	790.8	818.3	848.1	887.3	922.3	944.3
10°	694.2	694.7	703.1	716.6	739.0	744.1	777.7	820.2	869.1	916.7	952.6
12.5°	666.7	669.9	673.7	683.9	705.4	708.7	744.6	794.5	850.9	913.5	962.4
15°	666.7	669.0	671.3	676.5	693.7	696.5	728.2	778.2	841.6	914.9	978.3
17.5°	673.7	677.4	675.5	681.6	699.8	701.7	729.6	773.5	841.1	923.7	1002.6
20°	690.5	693.3	689.5	693.3	711.5	715.2	744.1	782.4	849.1	939.1	1032.9
22.5°	717.1	718.5	709.6	712.4	731.0	735.7	769.3	807.6	868.2	963.8	1073.5
25°	750.6	753.4	739.9	743.2	760.9	766.5	805.2	845.3	898.5	997.9	1125.3
27.5°	789.4	790.8	779.1	778.6	801.5	809.4	848.6	892.0	939.1	1040.8	1190.6
30°	833.7	837.9	826.7	824.8	853.7	860.3	899.0	949.4	998.8	1105.2	1283.4
32.5°	868.7	871.9	865.4	870.1	899.5	904.6	960.1	1030.6	1092.6	1196.6	1409.8
35°	919.1	920.9	906.0	914.4	948.0	961.0	1043.6	1144.4	1210.6	1311.4	1575.0
37.5°	1101.5	1101.5	1038.0	996.5	1028.7	1040.4	1157.9	1287.6	1356.2	1465.4	1783.1
40°	1353.9	1349.7	1256.8	1171.9	1167.7	1190.6	1320.7	1468.2	1544.2	1650.1	2017.3
42.5°	1623.0	1616.5	1490.1	1406.1	1392.1	1400.0	1508.8	1690.7	1768.1	1875.4	2269.2
45°	1861.9	1860.0	1744.3	1631.4	1606.3	1631.4	1743.4	1951.0	2006.5	2119.4	2520.6
47.5°	2062.1	2062.1	1977.6	1903.9	1890.8	1905.8	2061.1	2239.8	2234.7	2379.3	2765.6
50°	2292.5	2290.7	2210.4	2178.7	2192.2	2213.2	2426.9	2544.0	2470.7	2634.5	2984.4
52.5°	2453.9	2465.1	2437.6	2432.5	2501.5	2537.9	2798.2	2841.6	2682.1	2876.6	3148.1
55°	2581.8	2594.8	2626.6	2662.5	2795.4	2843.0	3157.9	3123.9	2858.9	3086.5	3242.4
57.5°	2762.8	2744.1	2793.1	2864.0	3079.1	3136.5	3506.4	3390.3	3001.2	3256.8	3252.6
60°	2982.5	2985.3	2993.7	3083.3	3362.3	3436.0	3849.8	3642.2	3092.6	3361.3	3138.8
62.5°	3246.6	3250.8	3268.0	3405.7	3742.5	3812.0	4215.5	3848.4	3134.6	3331.9	2844.9
65°	3228.4	3246.1	3438.8	3909.5	4320.5	4389.1	4642.4	3993.0	3071.2	3063.2	2316.3
67.5°	2941.0	2969.9	3292.3	4511.3	5192.0	5268.5	5158.4	4021.5	2797.3	2382.1	1511.1
70°	2564.0	2574.3	2962.0	5052.5	6201.1	6278.5	5620.3	3708.4	2122.7	1328.7	676.9
72.5°	2002.3	2004.7	2459.5	5178.0	6748.8	6753.0	5257.8	2753.0	1141.6	510.4	235.1
75°	1430.4	1416.4	1647.3	4199.2	5937.5	5985.1	3941.7	1291.3	436.2	241.2	117.1
77.5°	767.0	782.4	932.1	2490.3	4101.7	4182.9	2150.7	372.3	222.1	164.2	77.4
80°	237.0	250.1	382.1	1140.2	2323.3	2372.3	797.3	165.6	154.9	117.1	50.9
82.5°	74.6	77.4	178.2	479.1	964.3	986.7	230.9	93.8	105.9	77.4	29.9
85°	21.5	21.9	79.3	178.7	238.4	243.1	64.8	36.4	60.6	48.1	15.4
87.5°	2.3	7.5	29.9	29.9	21.0	20.5	7.0	7.9	17.3	6.1	2.8
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°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	924.7	925.1	919.1	908.8	897.6	888.3	876.6	867.3	860.7	858.9	862.1
5°	931.2	927.9	910.7	879.4	842.1	809.9	774.0	745.5	726.9	718.9	721.7
7.5°	941.0	931.7	893.9	832.3	760.9	697.5	633.1	583.2	551.4	535.6	537.9
10°	949.4	930.7	865.9	764.2	655.0	558.9	472.1	411.9	378.4	362.5	363.0
12.5°	957.3	930.3	829.5	683.5	535.6	418.0	337.3	307.4	298.1	294.8	293.9
15°	972.2	931.7	783.8	591.1	416.6	315.8	286.4	286.0	287.8	286.9	286.4
17.5°	992.8	933.1	732.0	493.1	321.4	278.5	277.1	281.3	284.1	282.7	282.2
20°	1019.4	938.7	676.9	396.1	276.2	269.2	272.5	276.2	278.5	276.2	275.7
22.5°	1056.7	948.5	616.7	318.2	261.7	263.6	266.4	270.6	272.9	269.7	269.2
25°	1102.4	963.8	557.5	276.7	254.7	257.1	261.3	265.9	268.7	265.5	265.0
27.5°	1161.7	988.6	502.9	267.3	247.7	249.1	255.2	262.2	265.9	261.7	261.7
30°	1247.5	1029.2	455.8	271.5	243.5	240.3	248.7	258.5	262.7	258.9	258.5
32.5°	1361.3	1086.5	426.9	278.1	241.7	230.0	237.9	250.5	257.5	255.2	255.2
35°	1510.6	1173.8	415.7	285.5	240.3	219.3	224.9	238.4	250.5	252.9	252.9
37.5°	1691.6	1295.1	418.9	288.8	236.1	210.4	213.2	224.9	240.7	248.2	250.1
40°	1897.4	1436.4	437.6	285.5	231.4	202.9	203.4	212.3	226.3	237.5	241.2
42.5°	2109.6	1601.6	472.1	273.4	227.2	196.4	195.0	201.1	210.4	218.3	221.6
45°	2311.6	1771.4	506.2	256.6	222.1	189.9	186.6	188.9	190.8	194.1	195.9
47.5°	2488.0	1890.8	496.4	241.2	215.1	182.4	176.8	175.9	170.3	169.8	169.3
50°	2609.8	1917.0	440.9	225.8	204.8	174.0	165.2	159.6	149.8	145.1	145.6
52.5°	2648.5	1813.9	360.2	210.4	188.0	162.8	150.2	141.4	129.2	125.0	124.6
55°	2597.2	1611.9	287.8	191.7	164.7	147.9	133.9	122.2	112.4	107.3	107.3
57.5°	2471.7	1354.8	227.7	169.8	140.0	131.1	117.1	105.4	97.0	91.9	91.0
60°	2263.6	1075.8	180.1	143.7	119.4	112.9	98.4	91.0	83.5	77.4	76.0
62.5°	1947.8	767.9	141.4	113.8	99.8	92.4	84.0	78.4	69.5	61.1	59.7
65°	1519.9	469.8	109.2	83.5	80.2	76.5	71.4	66.2	55.5	47.1	45.7
67.5°	958.7	222.5	77.9	63.0	63.4	61.6	59.2	55.1	47.1	39.7	38.7
70°	422.2	107.8	51.3	48.1	47.1	47.1	49.0	47.6	40.1	33.1	31.7
72.5°	143.7	57.8	38.3	36.4	34.1	33.6	41.1	39.7	32.2	25.7	24.3
75°	75.1	38.7	28.0	26.1	20.5	24.7	32.7	30.8	22.9	16.8	15.4
77.5°	49.0	27.5	19.1	16.8	11.7	16.3	24.3	21.5	13.5	8.4	7.5
80°	30.8	18.2	11.2	7.9	5.6	8.9	13.1	9.3	5.1	1.9	1.4
82.5°	16.3	9.3	4.2	2.8	2.3	2.8	3.3	2.3	0.9	0.0	0.0
85°	6.5	3.3	1.4	0.9	0.5	0.0	0.9	0.5	0.0	0.0	0.0
87.5°	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)