

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: P939068

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939068
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-SB1C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 5261 lumens
Efficiency: N/A
Efficacy: 96.7 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



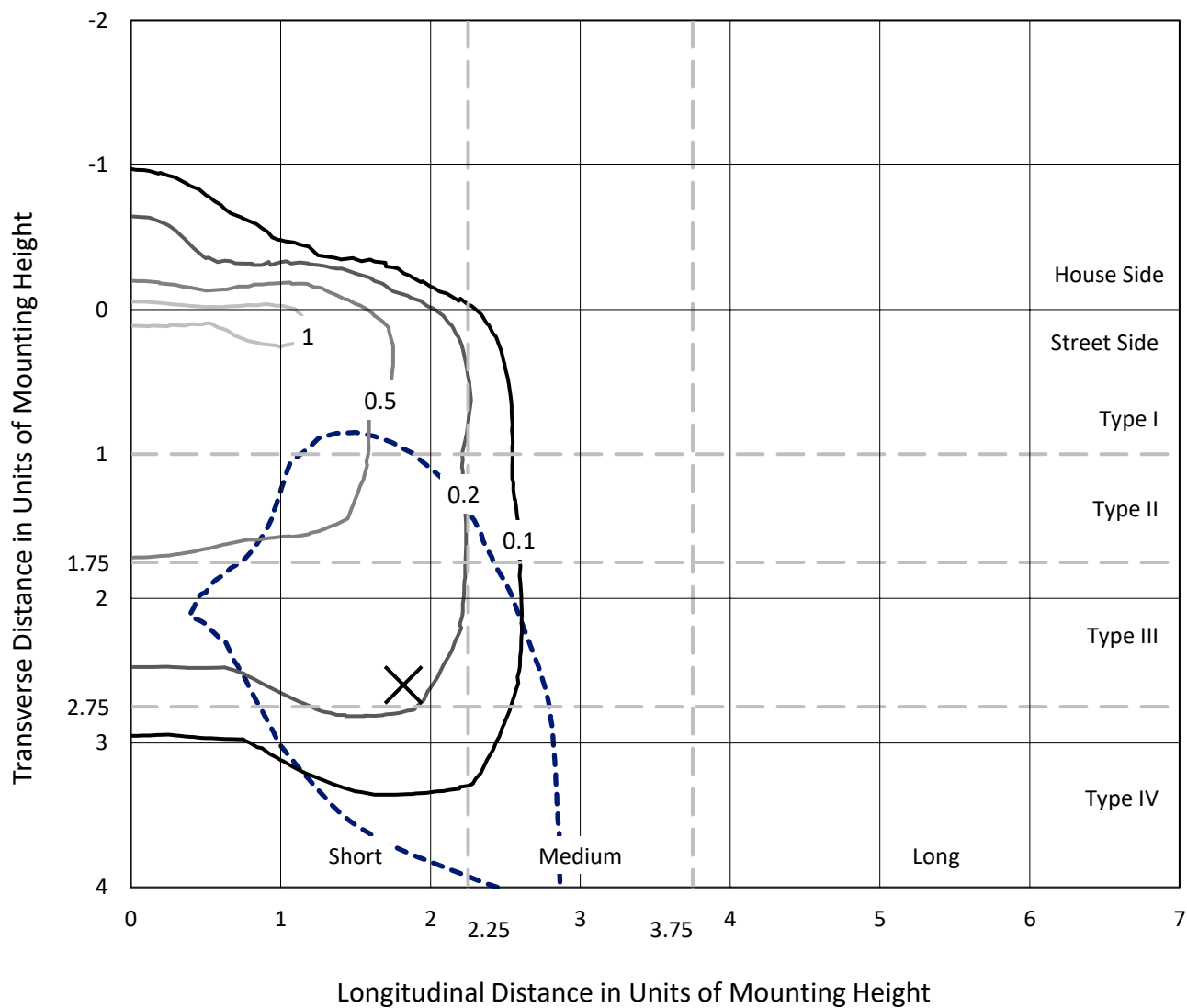
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

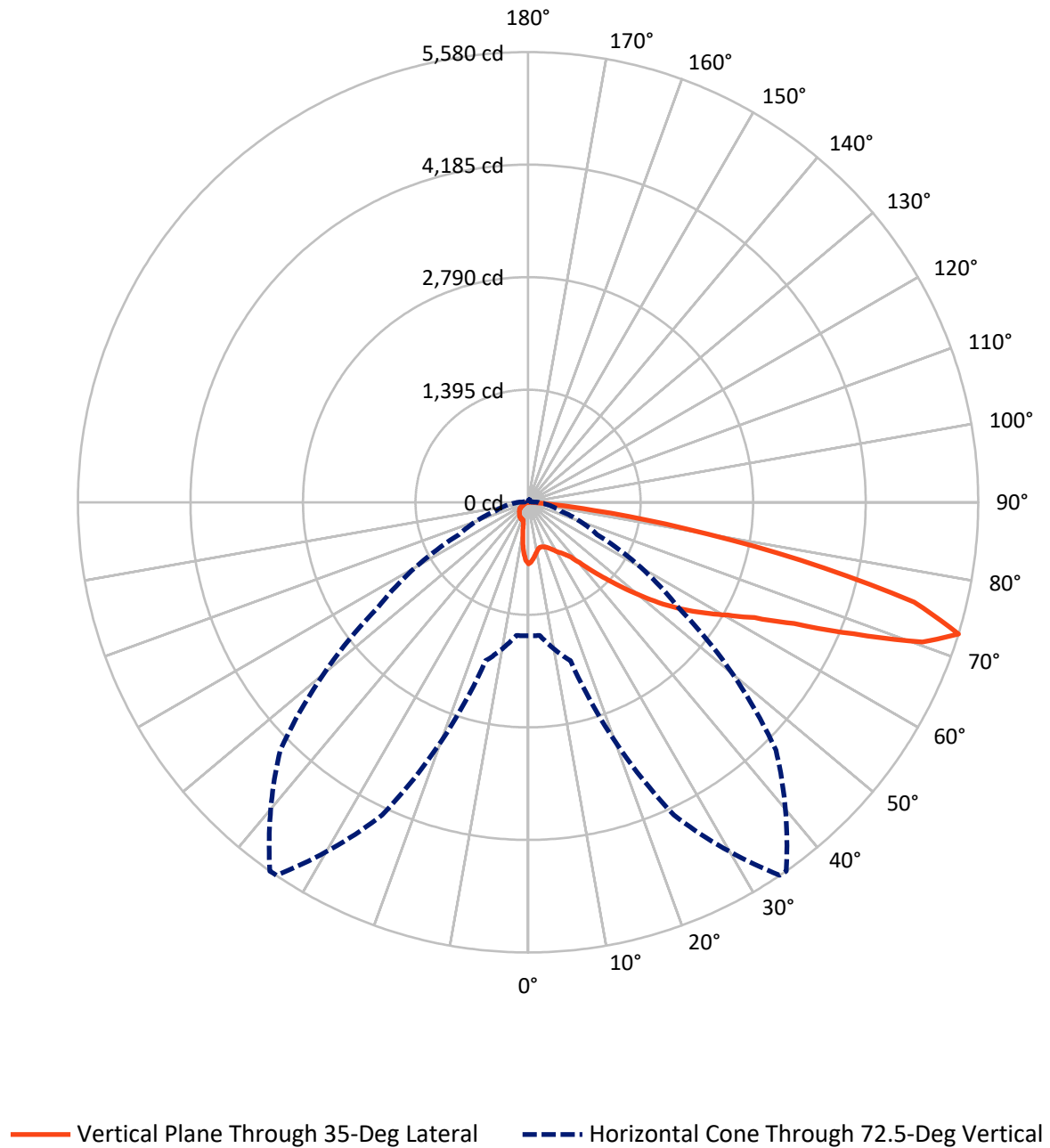
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	592.1	0.0	592.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4668.9	0.0	4668.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	5261.0	0.0	5261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.2
10°-20°	146.6	2.8
20°-30°	238.1	4.5
30°-40°	397.3	7.6
40°-50°	751.7	14.3
50°-60°	1194.4	22.7
60°-70°	1477.6	28.1
70°-80°	918.5	17.5
80°-90°	74.2	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°	5261.0	100.0
0°-180°	5261.0	100.0

Coefficient of Utilization



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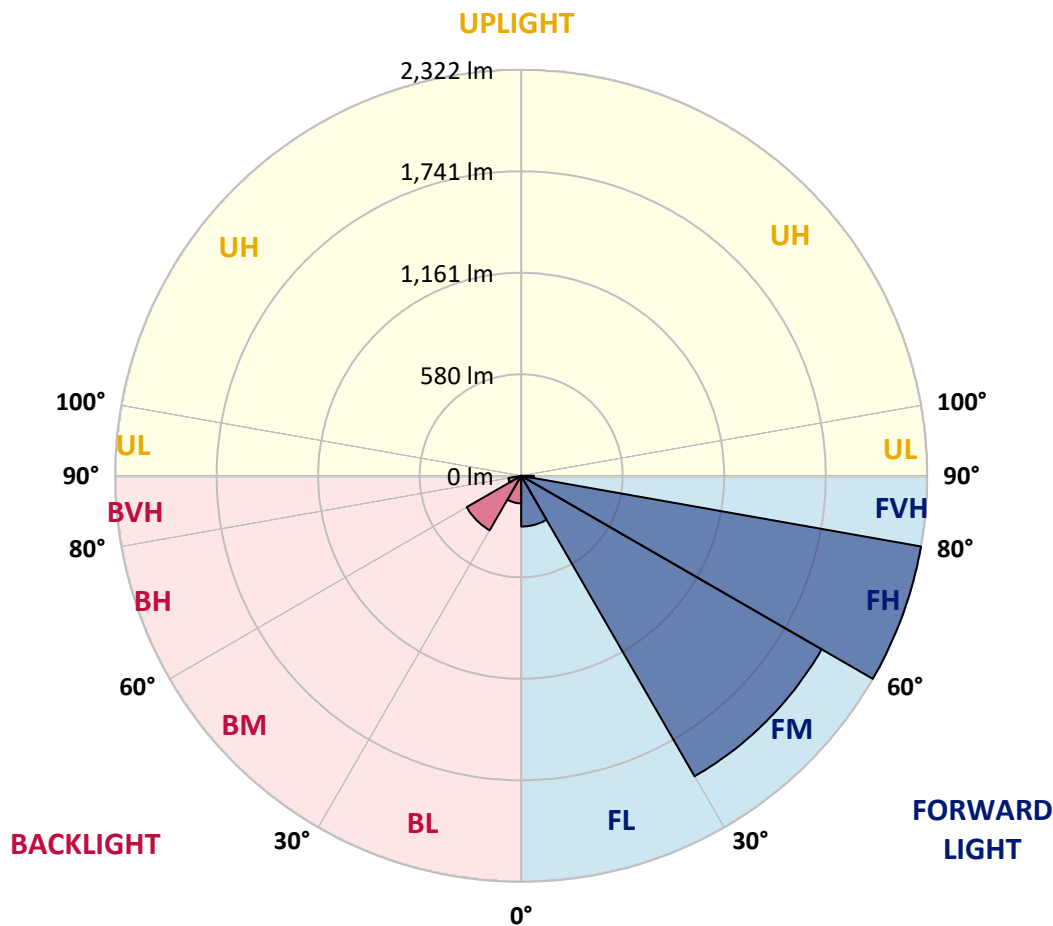
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.0	5.5			
FM	(30°-60°)	1983.9	37.7			
FH	(60°-80°)	2321.7	44.1			G2/5000
FVH	(80°-90°)	73.2	1.4			G1/100
BL	(0°-30°)	157.3	3.0	B1/500		
BM	(30°-60°)	359.5	6.8	B1/1000		
BH	(60°-80°)	74.3	1.4	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	728.6	734.7	735.9	737.8	737.8	740.1	744.0	749.4	758.3	762.9	766.0
5°	671.5	676.1	681.9	686.6	695.4	696.6	711.6	726.3	746.7	762.1	772.9
7.5°	614.1	619.5	627.2	638.4	649.9	653.4	676.1	700.8	733.2	762.1	780.2
10°	573.6	574.0	580.9	592.1	610.6	614.9	642.6	677.7	718.2	757.5	787.2
12.5°	550.9	553.6	556.6	565.1	582.9	585.6	615.2	656.5	703.1	754.8	795.3
15°	550.9	552.8	554.7	559.0	573.2	575.5	601.7	643.0	695.4	755.9	808.4
17.5°	556.6	559.7	558.2	563.2	578.2	579.8	602.9	639.1	695.0	763.3	828.4
20°	570.5	572.8	569.8	572.8	587.9	591.0	614.9	646.5	701.6	776.0	853.5
22.5°	592.5	593.7	586.3	588.6	604.1	607.9	635.7	667.3	717.4	796.4	887.0
25°	620.3	622.6	611.4	614.1	628.7	633.4	665.4	698.5	742.4	824.6	929.8
27.5°	652.2	653.4	643.8	643.4	662.3	668.8	701.2	737.1	776.0	860.0	983.8
30°	688.9	692.3	683.1	681.5	705.4	710.8	742.8	784.5	825.3	913.2	1060.5
32.5°	717.8	720.5	715.1	718.9	743.2	747.5	793.3	851.5	902.8	988.8	1164.9
35°	759.4	761.0	748.6	755.6	783.3	794.1	862.3	945.6	1000.3	1083.6	1301.4
37.5°	910.1	910.1	857.7	823.4	850.0	859.6	956.8	1063.9	1120.6	1210.8	1473.3
40°	1118.7	1115.2	1038.5	968.3	964.9	983.8	1091.3	1213.1	1276.0	1363.5	1666.9
42.5°	1341.1	1335.7	1231.2	1161.9	1150.3	1156.8	1246.7	1397.0	1461.0	1549.7	1875.0
45°	1538.5	1536.9	1441.3	1348.1	1327.2	1348.1	1440.6	1612.1	1658.0	1751.3	2082.8
47.5°	1703.9	1703.9	1634.1	1573.2	1562.4	1574.7	1703.1	1850.7	1846.5	1966.0	2285.2
50°	1894.3	1892.7	1826.4	1800.2	1811.4	1828.8	2005.3	2102.1	2041.5	2176.9	2466.0
52.5°	2027.7	2036.9	2014.2	2009.9	2067.0	2097.1	2312.2	2348.0	2216.2	2376.9	2601.3
55°	2133.3	2144.1	2170.3	2200.0	2309.8	2349.2	2609.4	2581.2	2362.3	2550.4	2679.1
57.5°	2282.9	2267.4	2307.9	2366.5	2544.2	2591.6	2897.3	2801.3	2479.8	2691.1	2687.6
60°	2464.4	2466.7	2473.7	2547.7	2778.2	2839.1	3181.0	3009.5	2555.4	2777.4	2593.6
62.5°	2682.6	2686.1	2700.3	2814.1	3092.4	3149.8	3483.3	3179.9	2590.1	2753.2	2350.7
65°	2667.6	2682.2	2841.4	3230.4	3570.0	3626.7	3836.0	3299.4	2537.7	2531.1	1913.9
67.5°	2430.1	2454.0	2720.4	3727.7	4290.1	4353.3	4262.3	3322.9	2311.4	1968.3	1248.6
70°	2118.6	2127.1	2447.5	4174.8	5123.9	5187.9	4644.0	3064.2	1754.0	1097.9	559.3
72.5°	1654.5	1656.4	2032.3	4278.5	5576.5	5579.9	4344.4	2274.8	943.3	421.7	194.3
75°	1181.9	1170.3	1361.2	3469.8	4906.1	4945.4	3257.0	1067.0	360.4	199.3	96.8
77.5°	633.7	646.5	770.2	2057.7	3389.2	3456.3	1777.1	307.6	183.5	135.7	64.0
80°	195.8	206.6	315.7	942.1	1919.7	1960.2	658.8	136.8	128.0	96.8	42.0
82.5°	61.7	64.0	147.3	395.9	796.8	815.3	190.8	77.5	87.5	64.0	24.7
85°	17.7	18.1	65.5	147.6	197.0	200.8	53.6	30.1	50.1	39.7	12.7
87.5°	1.9	6.2	24.7	24.7	17.3	17.0	5.8	6.6	14.3	5.0	2.3
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°	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5	762.5
2.5°	764.0	764.4	759.4	750.9	741.7	734.0	724.3	716.6	711.2	709.7	712.4
5°	769.4	766.7	752.5	726.6	695.8	669.2	639.5	616.0	600.6	594.0	596.3
7.5°	777.5	769.8	738.6	687.7	628.7	576.3	523.1	481.9	455.6	442.5	444.5
10°	784.5	769.0	715.5	631.4	541.2	461.8	390.1	340.4	312.6	299.5	299.9
12.5°	791.0	768.7	685.4	564.7	442.5	345.4	278.7	254.0	246.3	243.6	242.9
15°	803.4	769.8	647.6	488.4	344.2	261.0	236.7	236.3	237.8	237.1	236.7
17.5°	820.3	771.0	604.8	407.5	265.6	230.1	229.0	232.4	234.8	233.6	233.2
20°	842.3	775.6	559.3	327.3	228.2	222.4	225.1	228.2	230.1	228.2	227.8
22.5°	873.1	783.7	509.6	262.9	216.3	217.8	220.1	223.6	225.5	222.8	222.4
25°	910.9	796.4	460.7	228.6	210.5	212.4	215.9	219.7	222.0	219.3	219.0
27.5°	959.9	816.8	415.6	220.9	204.7	205.9	210.9	216.6	219.7	216.3	216.3
30°	1030.8	850.4	376.6	224.4	201.2	198.5	205.5	213.6	217.0	213.9	213.6
32.5°	1124.9	897.8	352.7	229.8	199.7	190.0	196.6	207.0	212.8	210.9	210.9
35°	1248.2	969.9	343.5	235.9	198.5	181.2	185.8	197.0	207.0	208.9	208.9
37.5°	1397.8	1070.1	346.2	238.6	195.1	173.9	176.2	185.8	198.9	205.1	206.6
40°	1567.8	1186.9	361.6	235.9	191.2	167.7	168.1	175.4	187.0	196.2	199.3
42.5°	1743.2	1323.4	390.1	225.9	187.7	162.3	161.1	166.1	173.9	180.4	183.1
45°	1910.1	1463.7	418.3	212.0	183.5	156.9	154.2	156.1	157.7	160.4	161.9
47.5°	2055.8	1562.4	410.2	199.3	177.7	150.7	146.1	145.3	140.7	140.3	139.9
50°	2156.4	1584.0	364.3	186.6	169.2	143.8	136.5	131.8	123.7	119.9	120.3
52.5°	2188.4	1498.8	297.6	173.9	155.4	134.5	124.1	116.8	106.8	103.3	102.9
55°	2146.0	1331.9	237.8	158.4	136.1	122.2	110.6	101.0	92.9	88.7	88.7
57.5°	2042.3	1119.5	188.1	140.3	115.6	108.3	96.8	87.1	80.2	75.9	75.2
60°	1870.4	888.9	148.8	118.7	98.7	93.3	81.3	75.2	69.0	64.0	62.8
62.5°	1609.4	634.5	116.8	94.1	82.5	76.3	69.4	64.8	57.4	50.5	49.3
65°	1255.9	388.2	90.2	69.0	66.3	63.2	59.0	54.7	45.9	38.9	37.8
67.5°	792.2	183.9	64.4	52.0	52.4	50.9	49.0	45.5	38.9	32.8	32.0
70°	348.9	89.0	42.4	39.7	38.9	38.9	40.5	39.3	33.2	27.4	26.2
72.5°	118.7	47.8	31.6	30.1	28.1	27.8	33.9	32.8	26.6	21.2	20.0
75°	62.1	32.0	23.1	21.6	17.0	20.4	27.0	25.4	18.9	13.9	12.7
77.5°	40.5	22.7	15.8	13.9	9.6	13.5	20.0	17.7	11.2	6.9	6.2
80°	25.4	15.0	9.3	6.6	4.6	7.3	10.8	7.7	4.2	1.5	1.2
82.5°	13.5	7.7	3.5	2.3	1.9	2.3	2.7	1.9	0.8	0.0	0.0
85°	5.4	2.7	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	1.9	0.4	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)