

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: P948436

Luminaire Tested: **GALN-SB3C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15928 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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

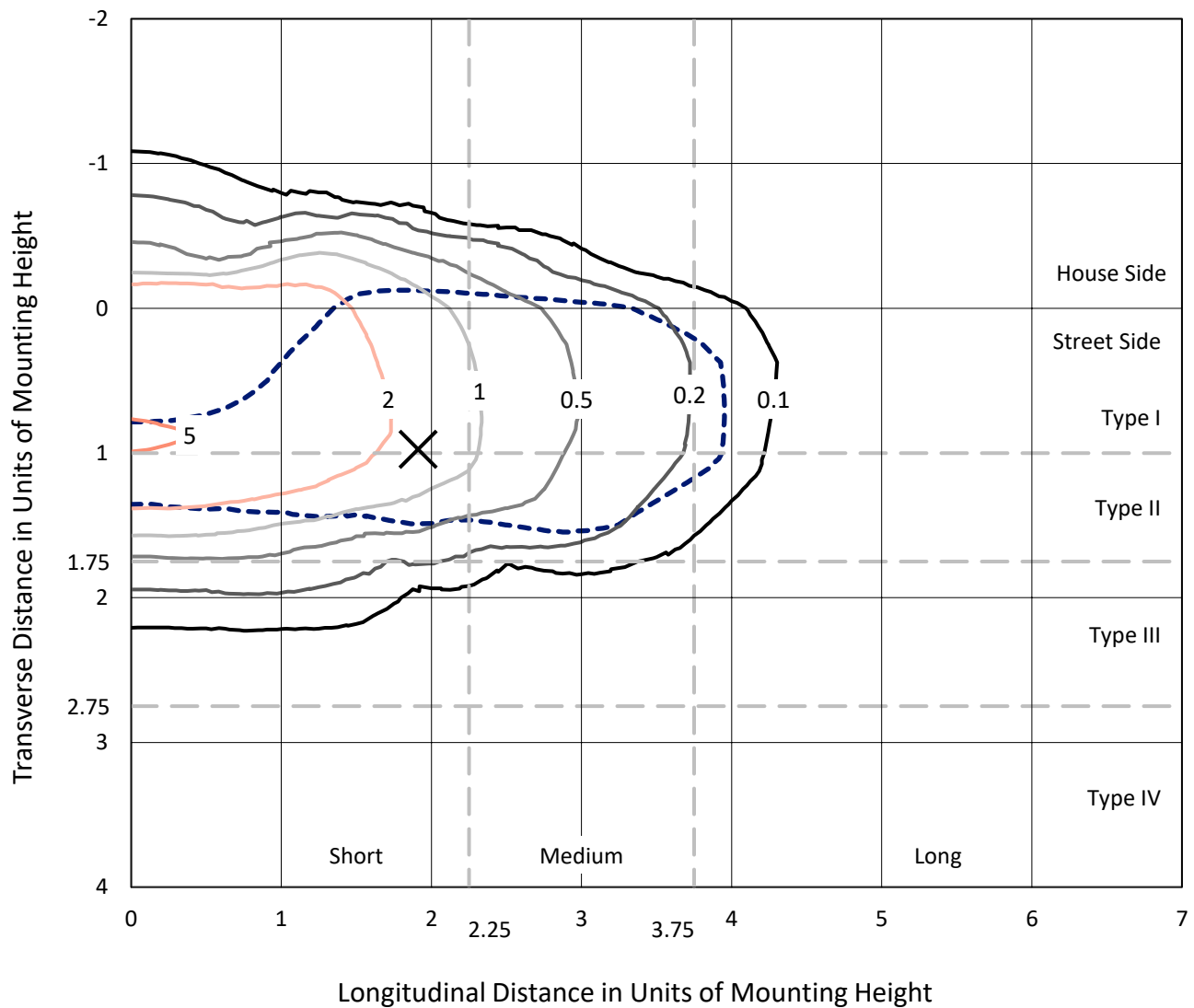


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Iso-Footcandle Lines of Horizontal Illumination

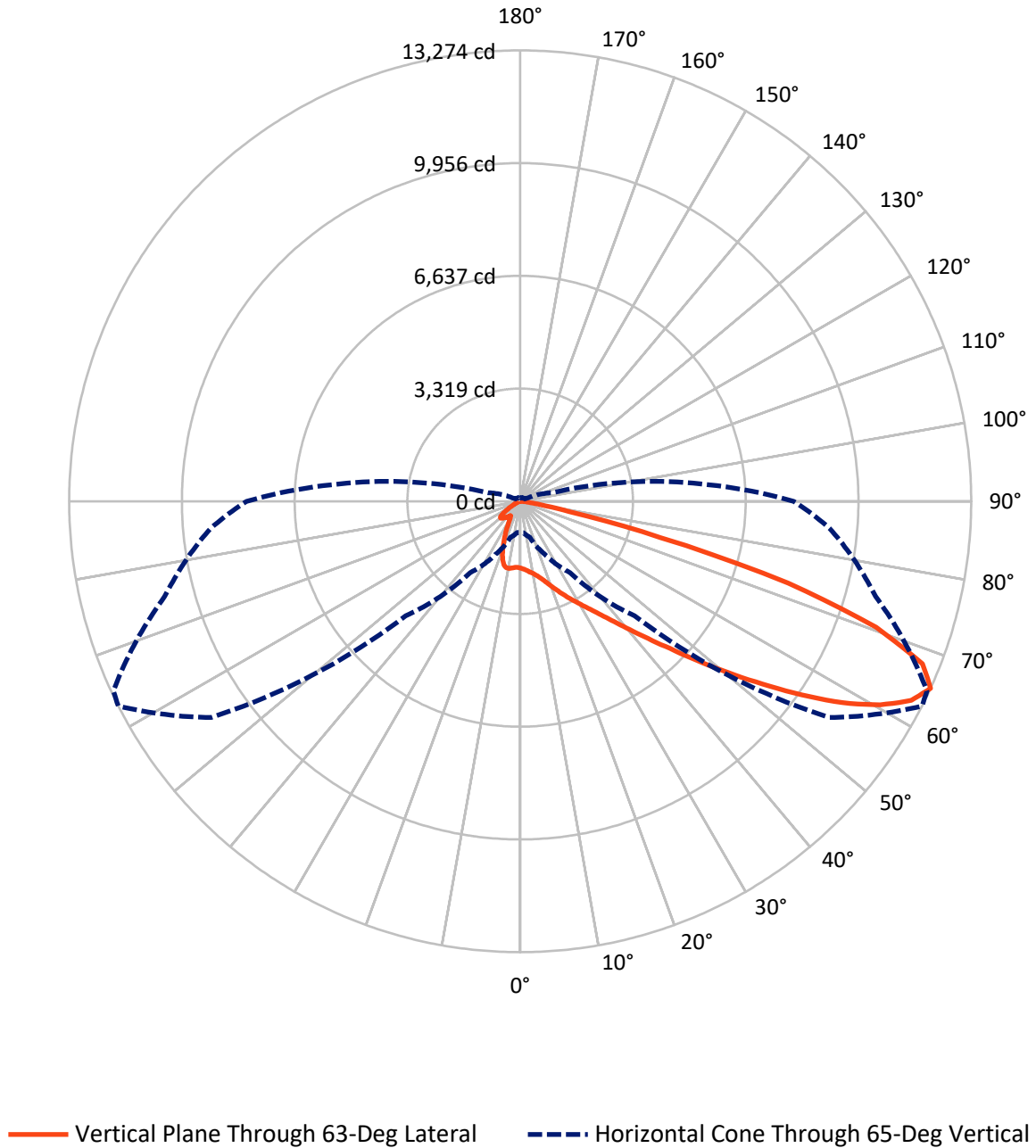
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2341.3	0.0	2341.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13586.7	0.0	13586.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	15928.0	0.0	15928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.2
10°-20°	513.9	3.2
20°-30°	894.8	5.6
30°-40°	1612.9	10.1
40°-50°	3198.8	20.1
50°-60°	4357.3	27.4
60°-70°	3478.0	21.8
70°-80°	1573.9	9.9
80°-90°	113.1	0.7
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°	15928.0	100.0
0°-180°	15928.0	100.0

Coefficient of Utilization



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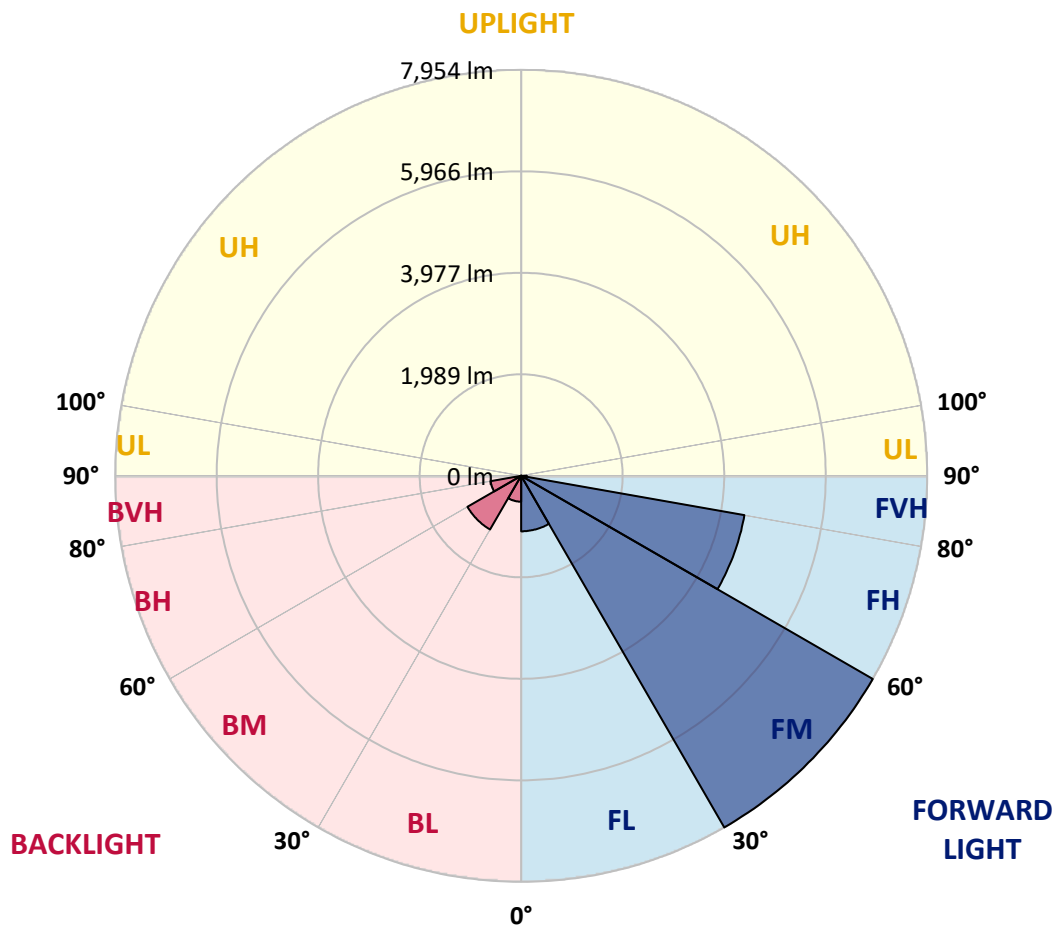
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.3	6.8			
FM	(30°-60°)	7954.0	49.9			
FH	(60°-80°)	4440.6	27.9			G2/5000
FVH	(80°-90°)	104.7	0.7			G2/225
BL	(0°-30°)	506.7	3.2	B2/1000		
BM	(30°-60°)	1215.0	7.6	B2/2500		
BH	(60°-80°)	611.2	3.8	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	2011.8	2006.4	2014.0	2010.7	2008.6	2004.2	2002.0	1999.8	1995.4	1992.1	1979.0
5°	2017.3	2014.0	2021.7	2028.3	2034.8	2041.4	2044.7	2049.1	2044.7	2035.9	2022.8
7.5°	1971.3	1969.1	1985.5	2005.3	2034.8	2060.1	2087.4	2102.8	2103.9	2100.6	2086.4
10°	1968.0	1962.5	1979.0	2003.1	2041.4	2086.4	2134.6	2167.4	2171.8	2186.1	2170.7
12.5°	2019.5	2014.0	2037.0	2063.3	2102.8	2149.9	2209.1	2255.1	2261.7	2281.4	2270.4
15°	2106.1	2098.4	2124.7	2158.7	2209.1	2262.8	2325.2	2366.9	2372.3	2396.5	2376.7
17.5°	2206.9	2199.2	2229.9	2266.1	2320.8	2394.3	2466.6	2512.6	2519.2	2534.5	2498.4
20°	2336.2	2326.3	2350.4	2383.3	2441.4	2529.0	2615.6	2681.4	2680.3	2680.3	2621.1
22.5°	2486.3	2471.0	2491.8	2518.1	2572.9	2679.2	2794.2	2872.0	2872.0	2841.3	2743.8
25°	2647.4	2632.0	2655.1	2679.2	2727.4	2847.9	2982.7	3079.1	3083.5	3030.9	2875.3
27.5°	2849.0	2829.3	2846.8	2875.3	2903.8	3026.5	3186.5	3298.3	3300.5	3219.4	3000.2
30°	3236.9	3181.0	3126.2	3095.6	3108.7	3230.3	3401.3	3525.1	3536.1	3424.3	3136.1
32.5°	3947.0	3936.0	3743.2	3491.1	3359.6	3449.5	3641.3	3790.3	3796.9	3653.3	3312.5
35°	5050.4	5037.3	4727.2	4247.2	3818.8	3743.2	3932.7	4109.1	4104.8	3942.6	3541.5
37.5°	6367.5	6355.5	5946.8	5304.6	4611.0	4186.9	4308.6	4493.8	4521.2	4308.6	3837.4
40°	7492.9	7448.0	7189.4	6570.3	5663.0	4923.3	4843.3	4966.0	4994.5	4742.5	4213.2
42.5°	8345.4	8307.1	8175.6	7788.8	6936.2	6012.5	5473.4	5520.5	5552.3	5249.8	4645.0
45°	8787.0	8778.2	8830.8	8794.7	8233.6	7349.3	6374.1	6178.0	6190.0	5812.0	5134.8
47.5°	8849.5	8845.1	9085.1	9424.7	9349.1	8857.1	7530.1	6997.6	6954.9	6446.4	5667.3
50°	8481.3	8472.5	8932.7	9569.4	10094.3	10123.8	8842.9	7921.3	7827.1	7102.8	6222.9
52.5°	7305.5	7303.3	8059.4	9119.0	10356.1	11232.8	10140.3	8936.0	8778.2	7797.5	6810.2
55°	5621.3	5661.9	6528.6	7781.1	9878.4	11766.4	11305.1	10062.5	9820.3	8496.6	7351.5
57.5°	3982.0	4041.2	4898.1	6013.6	8396.9	11450.8	12092.9	11191.1	10930.3	9193.5	7900.5
60°	2138.9	2191.5	3049.5	4380.9	6247.0	10274.0	12508.2	12170.7	11924.2	9855.4	8395.8
62.5°	1274.4	1291.9	1646.9	2828.2	4225.3	7849.0	12331.8	12917.0	12714.3	10410.9	8826.4
65°	915.0	918.3	1096.9	1726.9	2565.2	4768.8	11094.7	13274.2	13211.7	10829.5	9145.3
67.5°	770.3	768.1	842.6	1147.3	1747.8	2388.8	8503.2	12769.0	13034.2	11094.7	9326.1
70°	660.8	664.0	751.7	840.5	1313.8	1352.2	4227.5	11117.7	11683.1	11164.8	9315.2
72.5°	492.0	503.0	584.0	765.9	991.7	930.3	1459.6	8243.5	9265.9	10519.4	8831.9
75°	347.4	352.8	410.9	644.3	739.6	677.2	745.1	4261.5	5572.0	8064.9	7228.8
77.5°	267.4	277.2	311.2	450.4	728.7	475.6	455.8	1474.9	2266.1	4871.8	4956.2
80°	144.6	162.2	224.6	325.4	511.7	336.4	225.7	587.3	768.1	2278.1	1911.0
82.5°	74.5	83.3	156.7	234.5	291.5	293.7	111.8	244.4	316.7	703.5	261.9
85°	29.6	36.2	105.2	129.3	150.1	144.6	50.4	98.6	114.0	195.0	80.0
87.5°	6.6	11.0	38.4	29.6	28.5	30.7	12.1	23.0	21.9	23.0	14.2
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°	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8	1965.8
2.5°	1977.9	1973.5	1961.4	1948.3	1932.9	1924.2	1918.7	1917.6	1909.9	1904.5	1909.9
5°	2010.7	2006.4	1983.3	1956.0	1926.4	1903.4	1881.4	1861.7	1833.2	1827.7	1825.6
7.5°	2076.5	2064.4	2027.2	1989.9	1934.0	1867.2	1786.1	1693.0	1609.7	1584.5	1572.4
10°	2157.6	2141.1	2094.0	2028.3	1904.5	1722.6	1526.4	1344.5	1199.9	1159.3	1144.0
12.5°	2249.6	2235.4	2172.9	2051.3	1780.6	1450.8	1150.6	924.8	784.6	749.5	739.6
15°	2359.2	2338.4	2251.8	2016.2	1559.3	1102.3	790.1	656.4	606.0	599.4	592.8
17.5°	2475.4	2441.4	2321.9	1890.2	1261.2	783.5	610.3	572.0	550.1	543.5	540.2
20°	2581.6	2537.8	2363.6	1699.5	942.4	610.3	546.8	521.6	501.9	494.2	489.8
22.5°	2687.9	2625.5	2363.6	1439.8	706.8	541.3	501.9	478.9	455.8	446.0	440.5
25°	2798.6	2715.3	2321.9	1150.6	568.7	496.4	459.1	433.9	414.2	402.1	397.8
27.5°	2906.0	2790.9	2226.6	876.6	506.2	456.9	419.7	395.6	376.9	368.2	368.2
30°	3007.9	2865.4	2092.9	665.1	465.7	418.6	383.5	362.7	344.1	335.3	336.4
32.5°	3146.0	2959.7	1950.5	545.7	430.6	382.4	350.6	330.9	314.5	307.9	307.9
35°	3337.7	3098.8	1827.7	535.8	401.1	352.8	321.1	302.4	286.0	280.5	280.5
37.5°	3609.5	3323.5	1763.1	601.6	376.9	326.5	297.0	277.2	261.9	257.5	256.4
40°	3944.8	3628.1	1798.2	667.3	360.5	303.5	275.0	255.3	242.2	236.7	235.6
42.5°	4342.5	4004.0	1992.1	717.7	349.6	283.8	254.2	232.3	223.5	221.3	221.3
45°	4799.5	4417.1	2289.1	771.4	332.0	265.2	233.4	217.0	210.4	209.3	208.2
47.5°	5318.9	4870.7	2633.1	838.3	314.5	247.6	217.0	206.0	200.5	198.3	198.3
50°	5833.9	5327.6	2987.1	875.5	300.2	231.2	203.8	195.0	190.7	189.6	189.6
52.5°	6373.0	5797.7	3273.1	840.5	288.2	218.1	192.9	186.3	181.9	180.8	180.8
55°	6886.9	6178.0	3322.4	713.3	264.1	204.9	180.8	177.5	172.0	172.0	170.9
57.5°	7329.6	6368.6	2973.9	523.8	240.0	185.2	168.7	165.5	161.1	160.0	158.9
60°	7736.2	6313.8	2295.6	352.8	213.7	165.5	153.4	151.2	146.8	141.4	140.3
62.5°	7965.2	6072.8	1570.2	230.1	187.4	144.6	135.9	134.8	124.9	114.0	111.8
65°	8051.7	5577.5	979.6	167.7	156.7	123.8	117.2	115.1	100.8	88.8	87.7
67.5°	7976.1	4762.2	494.2	132.6	123.8	103.0	96.4	96.4	86.6	75.6	74.5
70°	7673.7	3570.0	208.2	106.3	95.3	78.9	78.9	83.3	73.4	61.4	60.3
72.5°	7017.3	2401.9	110.7	81.1	71.2	55.9	64.7	67.9	58.1	46.0	46.0
75°	5578.6	1465.0	76.7	60.3	44.9	39.4	49.3	51.5	39.4	30.7	29.6
77.5°	3815.5	841.6	51.5	38.4	28.5	23.0	34.0	31.8	20.8	14.2	15.3
80°	1675.4	350.6	29.6	17.5	11.0	8.8	12.1	8.8	6.6	4.4	4.4
82.5°	196.1	82.2	11.0	6.6	4.4	2.2	1.1	0.0	0.0	0.0	0.0
85°	40.5	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.2	1.1	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)