

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: P955931

Luminaire Tested: **GALN-SB8D-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64621 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 584.9
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



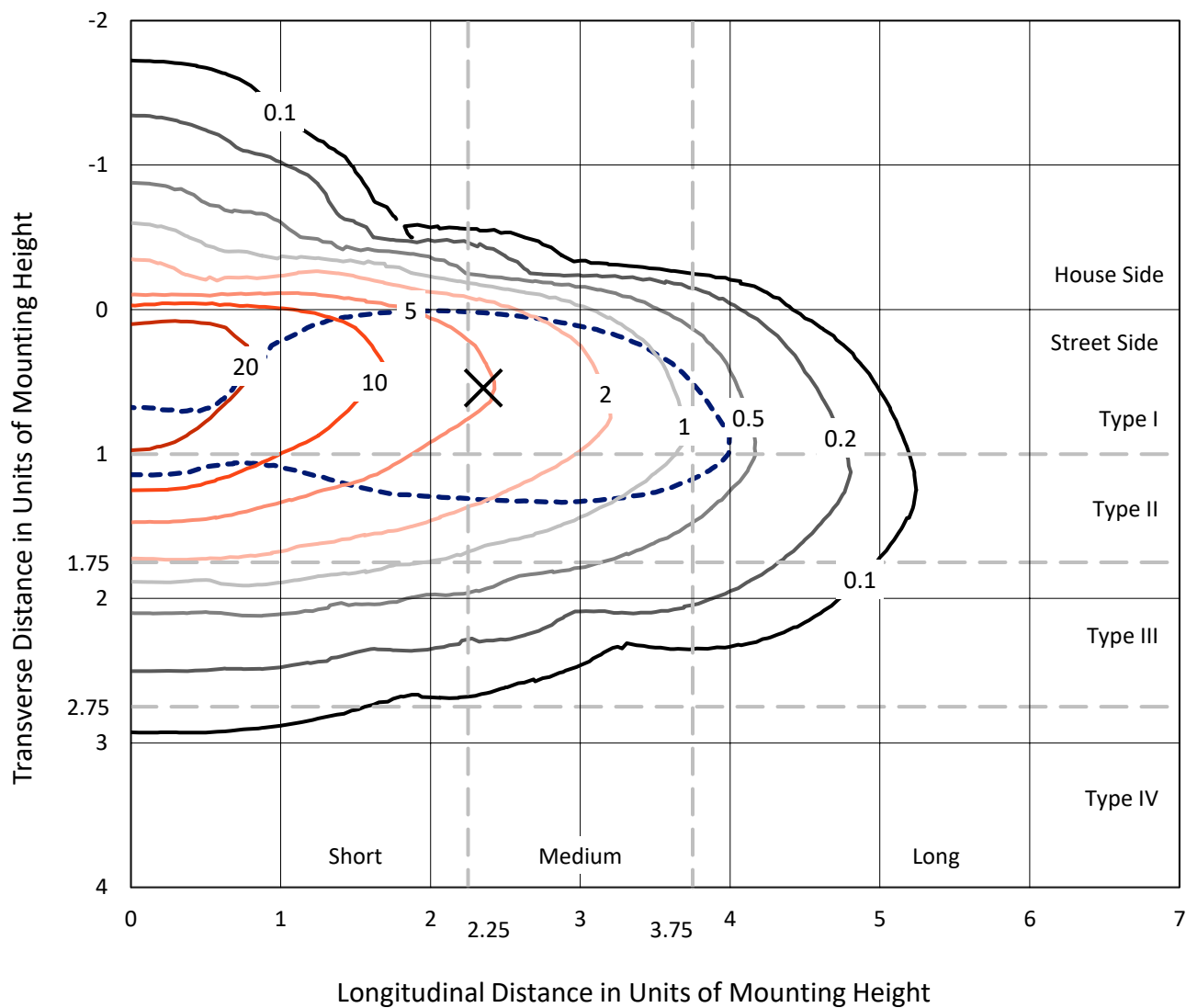
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

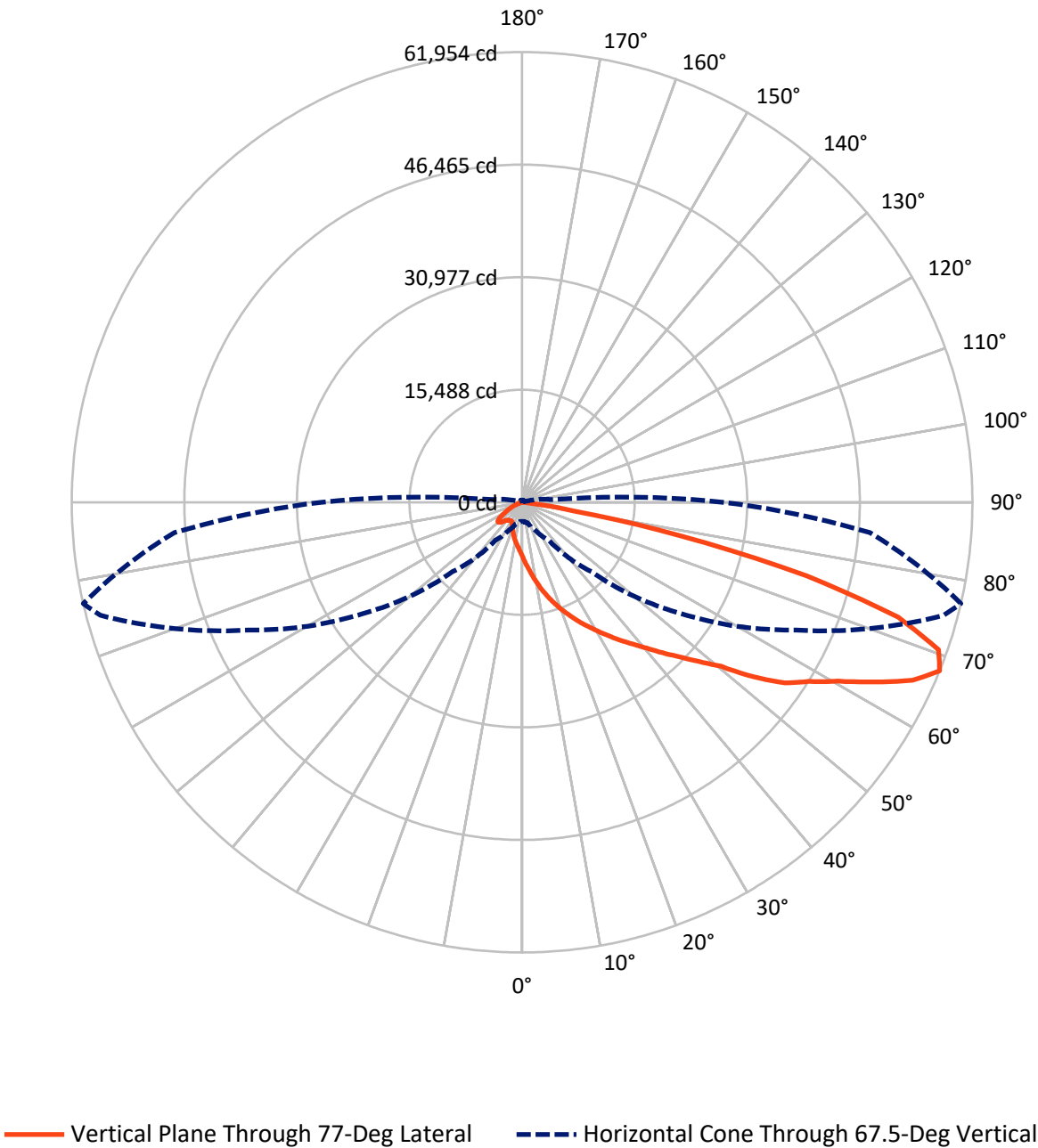
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4754.2	0.0	4754.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	59866.8	0.0	59866.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	64621.0	0.0	64621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.6	1.2
10°-20°	2663.4	4.1
20°-30°	5139.7	8.0
30°-40°	8922.8	13.8
40°-50°	12955.4	20.0
50°-60°	14877.7	23.0
60°-70°	12916.6	20.0
70°-80°	6083.9	9.4
80°-90°	300.9	0.5
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°	64621.0	100.0
0°-180°	64621.0	100.0

Coefficient of Utilization



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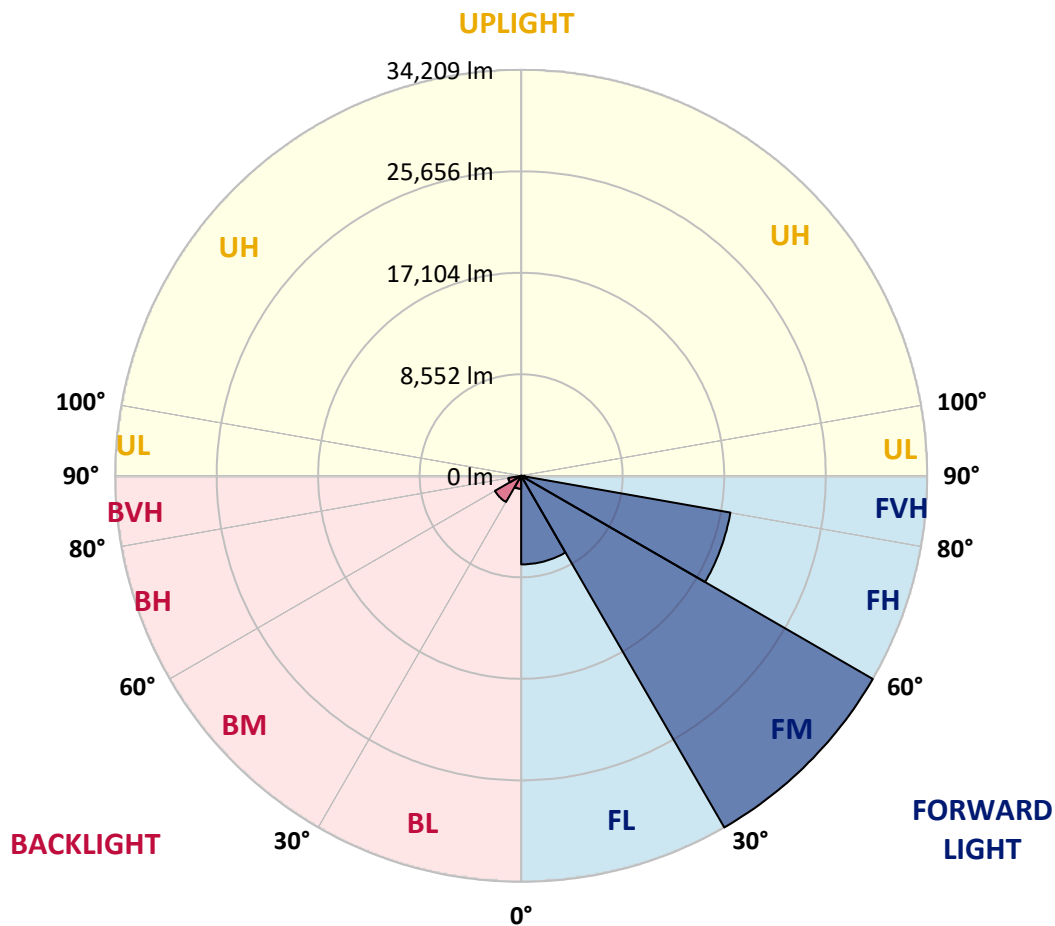
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7463.0	11.5			
FM	(30°-60°)	34208.6	52.9			
FH	(60°-80°)	17899.8	27.7			G5
FVH	(80°-90°)	295.3	0.5			G3/500
BL	(0°-30°)	1100.7	1.7	B3/2500		
BM	(30°-60°)	2547.4	3.9	B3/5000		
BH	(60°-80°)	1100.6	1.7	B3/2500		G3/2500
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8
2.5°	10316.9	10381.1	10288.8	10112.2	9847.4	9674.8	9253.5	8856.2	8414.8	8274.4	7833.0
5°	12576.1	12632.3	12527.9	12335.3	11982.2	11645.1	11091.4	10260.7	9398.0	9121.1	8338.6
7.5°	14249.4	14281.5	14241.4	14064.8	13727.8	13346.5	12728.6	11745.4	10465.4	10160.4	8960.6
10°	15453.3	15557.6	15545.5	15477.3	15252.6	14943.6	14285.5	13166.0	11661.2	11267.9	9662.8
12.5°	16251.8	16368.2	16436.4	16588.9	16576.8	16380.2	15802.4	14618.6	12853.0	12391.5	10453.3
15°	16484.5	16608.9	16869.8	17222.9	17535.9	17636.2	17230.9	16043.1	14165.1	13575.3	11263.9
17.5°	16352.1	16544.7	16857.7	17415.5	18101.7	18555.1	18511.0	17419.5	15356.9	14682.8	12058.4
20°	16645.1	16829.6	17074.4	17543.9	18342.5	19165.1	19494.1	18735.7	16540.7	15834.5	12893.1
22.5°	18266.2	18234.1	18258.2	18334.4	18812.0	19626.6	20304.7	19931.5	17712.5	16990.2	13775.9
25°	20834.4	20689.9	20445.2	20031.8	19911.5	20304.7	21011.0	20990.9	18948.4	18173.9	14678.8
27.5°	23779.8	23755.7	23181.9	22186.7	21624.9	21472.4	21809.5	22022.2	20172.3	19345.7	15585.7
30°	26600.8	26665.0	25890.5	24783.0	23751.7	23153.8	22848.8	23001.3	21416.3	20609.7	16520.7
32.5°	29056.6	29124.8	28282.1	26986.0	25709.9	24987.6	24345.6	23968.4	22772.6	21893.8	17547.9
35°	31131.2	31199.4	30232.4	28799.8	27439.5	26785.4	26059.1	25027.8	24136.9	23318.3	18691.6
37.5°	32985.1	32965.1	31668.9	30224.3	28888.1	28370.4	27989.2	26331.9	25541.4	24750.9	19959.6
40°	34080.6	34164.9	33057.4	31464.3	30168.2	29791.0	29766.9	27949.1	27162.6	26396.1	21348.0
42.5°	34401.6	34550.1	33747.6	32439.4	31263.6	30854.3	31484.4	29698.7	29048.6	28302.2	22917.0
45°	33823.8	33968.3	33603.1	32696.2	32010.0	31745.2	32961.1	31512.4	31063.0	30324.7	24686.7
47.5°	32138.4	32319.0	32407.3	32214.7	32206.7	32475.5	34285.3	33422.5	33454.6	32700.2	26737.2
50°	28876.0	29181.0	29991.6	30673.8	31729.1	33053.4	35573.4	35493.1	36151.2	35501.2	29409.7
52.5°	22945.1	23378.5	26171.4	28037.4	30408.9	32945.0	36989.9	38815.7	40882.3	39931.3	33177.7
55°	18438.8	18438.8	20710.0	24201.1	27832.7	32230.7	37607.9	40974.6	44104.6	43879.9	35830.2
57.5°	15031.9	15212.5	16661.1	19746.9	24104.8	30529.3	37989.1	42330.9	46700.9	46536.3	38422.5
60°	9277.6	9666.8	12403.5	15449.2	19863.3	27499.7	37748.3	43703.3	49850.9	49983.3	41544.4
62.5°	5224.7	5369.1	6589.0	11115.4	15445.2	23426.7	35906.4	44469.7	53879.7	54441.5	44762.7
65°	3607.5	3679.7	4149.2	6918.1	10706.1	18651.4	32307.0	43992.2	57916.6	59052.2	47491.4
67.5°	2620.4	2656.5	2949.4	4225.5	6352.2	13523.1	26665.0	41584.5	60055.4	61953.5	48013.0
70°	2014.4	2038.5	2251.2	2776.9	3752.0	8346.6	19365.7	36797.3	58506.5	60773.7	45340.5
72.5°	1637.2	1661.3	1825.8	2054.5	2487.9	4935.7	11737.4	29883.2	51668.7	54116.5	38599.0
75°	1380.4	1412.5	1561.0	1709.4	1950.2	3170.1	5505.5	20810.3	38855.8	40461.0	26841.6
77.5°	766.4	706.3	1268.0	1416.5	1645.2	2006.4	2576.2	12247.0	21761.4	22206.8	11910.0
80°	477.5	493.6	1007.2	1139.6	1264.0	1011.2	1179.8	4715.0	7544.0	7166.8	2307.4
82.5°	28.1	64.2	774.5	822.6	866.8	433.4	445.4	1601.1	1817.8	1669.3	409.3
85°	0.0	0.0	353.1	284.9	301.0	124.4	128.4	373.2	244.8	264.8	80.3
87.5°	0.0	0.0	0.0	8.0	0.0	12.0	24.1	32.1	12.0	16.1	28.1
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°	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8	7451.8
2.5°	7552.1	7271.2	6701.4	6143.6	5690.1	5268.8	4967.8	4682.9	4538.5	4530.4	4522.4
5°	7780.8	7190.9	6051.3	5044.1	4233.5	3583.4	3162.1	2861.1	2708.6	2656.5	2648.4
7.5°	8101.8	7215.0	5481.5	4081.0	3126.0	2568.2	2327.4	2231.1	2199.0	2162.9	2154.9
10°	8507.1	7271.2	4971.8	3286.5	2463.9	2183.0	2086.7	2046.5	2022.4	1998.4	1990.3
12.5°	8960.6	7323.3	4466.2	2728.7	2166.9	2022.4	1954.2	1906.1	1874.0	1845.9	1837.9
15°	9402.0	7355.4	3940.6	2339.5	2014.4	1898.0	1825.8	1773.7	1729.5	1697.4	1693.4
17.5°	9839.4	7399.6	3447.0	2106.7	1890.0	1773.7	1701.4	1637.2	1601.1	1565.0	1561.0
20°	10324.9	7391.6	2981.5	1942.2	1765.6	1649.3	1573.0	1512.8	1476.7	1436.6	1432.6
22.5°	10774.3	7351.4	2572.2	1801.7	1637.2	1524.9	1440.6	1380.4	1344.3	1312.2	1308.2
25°	11292.0	7319.3	2231.1	1673.3	1516.8	1404.5	1312.2	1256.0	1215.9	1187.8	1183.8
27.5°	11789.6	7271.2	1982.3	1557.0	1400.5	1292.1	1203.8	1139.6	1103.5	1083.5	1083.5
30°	12279.1	7259.1	1890.0	1444.6	1296.1	1187.8	1099.5	1039.3	1011.2	1003.2	999.2
32.5°	12869.0	7291.2	1930.2	1404.5	1199.8	1091.5	1007.2	963.1	935.0	935.0	935.0
35°	13499.0	7283.2	1990.3	1440.6	1135.6	995.2	931.0	902.9	874.8	874.8	874.8
37.5°	14289.5	7295.3	2038.5	1500.8	1111.5	914.9	878.8	842.7	826.6	826.6	826.6
40°	15469.3	7692.5	2014.4	1552.9	1103.5	858.7	786.5	774.5	762.4	762.4	762.4
42.5°	16913.9	8555.3	2046.5	1557.0	1099.5	818.6	722.3	746.4	718.3	714.3	710.3
45°	18494.9	9498.3	2251.2	1472.7	1095.5	798.5	690.2	718.3	674.1	674.1	674.1
47.5°	20064.0	10433.3	2459.8	1352.3	1083.5	794.5	662.1	646.1	634.0	638.0	638.0
50°	22226.8	11195.7	2540.1	1187.8	1055.4	786.5	609.9	614.0	605.9	614.0	614.0
52.5°	24582.4	11356.2	2443.8	1003.2	975.1	762.4	573.8	589.9	585.9	593.9	593.9
55°	26051.0	11183.6	2018.4	834.7	850.7	666.1	537.7	569.8	569.8	569.8	569.8
57.5°	27567.9	10449.3	1432.6	678.2	706.3	545.7	505.6	549.8	545.7	541.7	541.7
60°	28659.3	9261.5	943.0	557.8	561.8	449.4	469.5	517.6	513.6	493.6	493.6
62.5°	29473.9	7949.3	605.9	473.5	429.4	405.3	429.4	469.5	453.4	409.3	401.3
65°	29381.6	6131.5	465.5	405.3	353.1	353.1	373.2	409.3	361.2	288.9	280.9
67.5°	27668.2	4149.2	385.2	341.1	296.9	292.9	309.0	341.1	309.0	244.8	236.8
70°	24606.4	2712.6	309.0	264.8	236.8	216.7	248.8	292.9	260.8	196.6	188.6
72.5°	19971.7	1653.3	232.7	192.6	172.5	140.4	196.6	240.8	208.7	144.5	136.4
75°	12921.2	842.7	160.5	124.4	92.3	84.3	144.5	180.6	144.5	88.3	76.2
77.5°	4943.8	353.1	88.3	56.2	48.2	40.1	80.3	108.3	60.2	20.1	16.1
80°	951.0	148.5	44.1	28.1	24.1	16.1	12.0	8.0	0.0	0.0	0.0
82.5°	164.5	48.2	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	0.0	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)