

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: P948791

Luminaire Tested: **GALN-SB3D-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948791
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-SB3D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 23977 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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



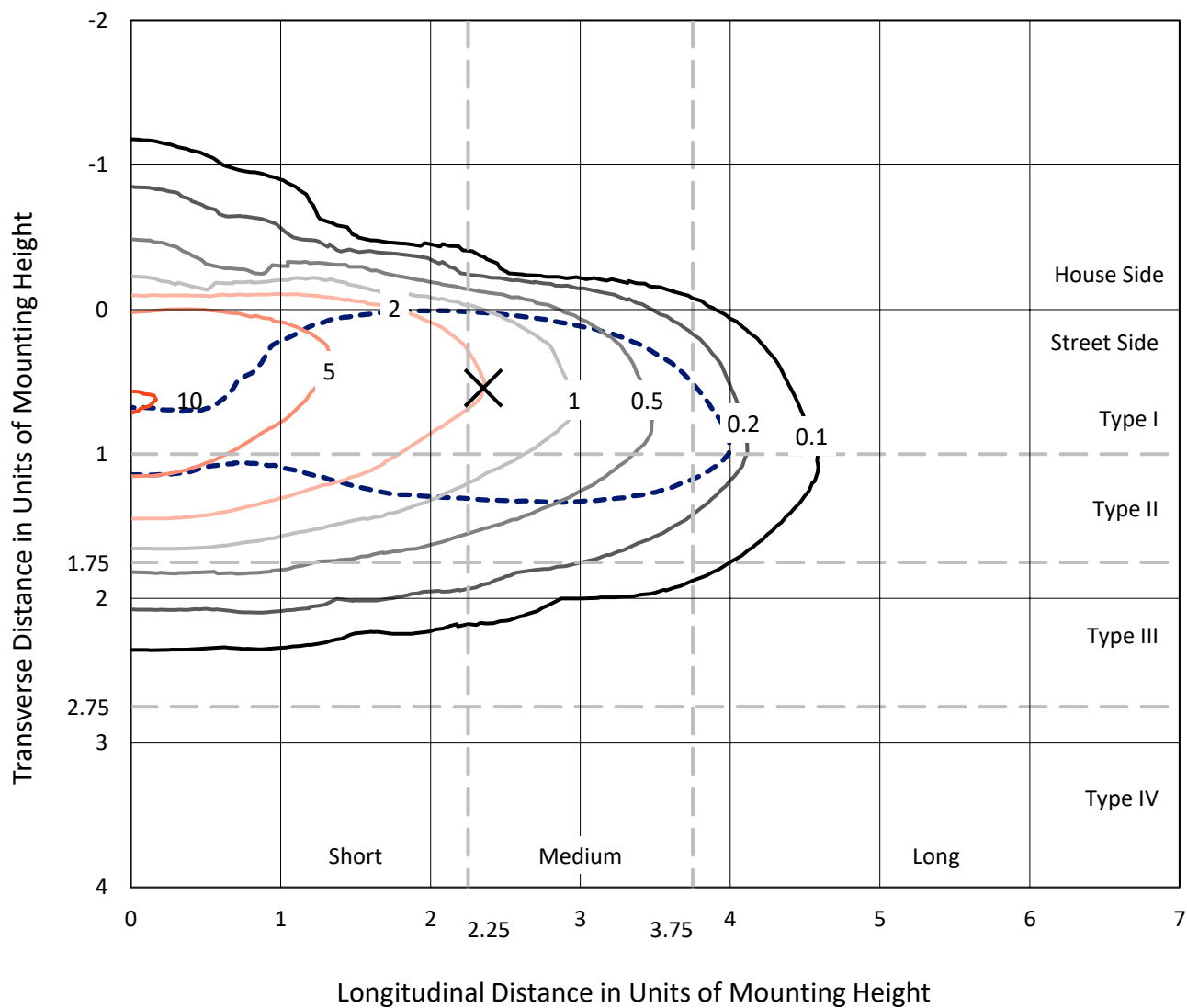
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Iso-Footcandle Lines of Horizontal Illumination

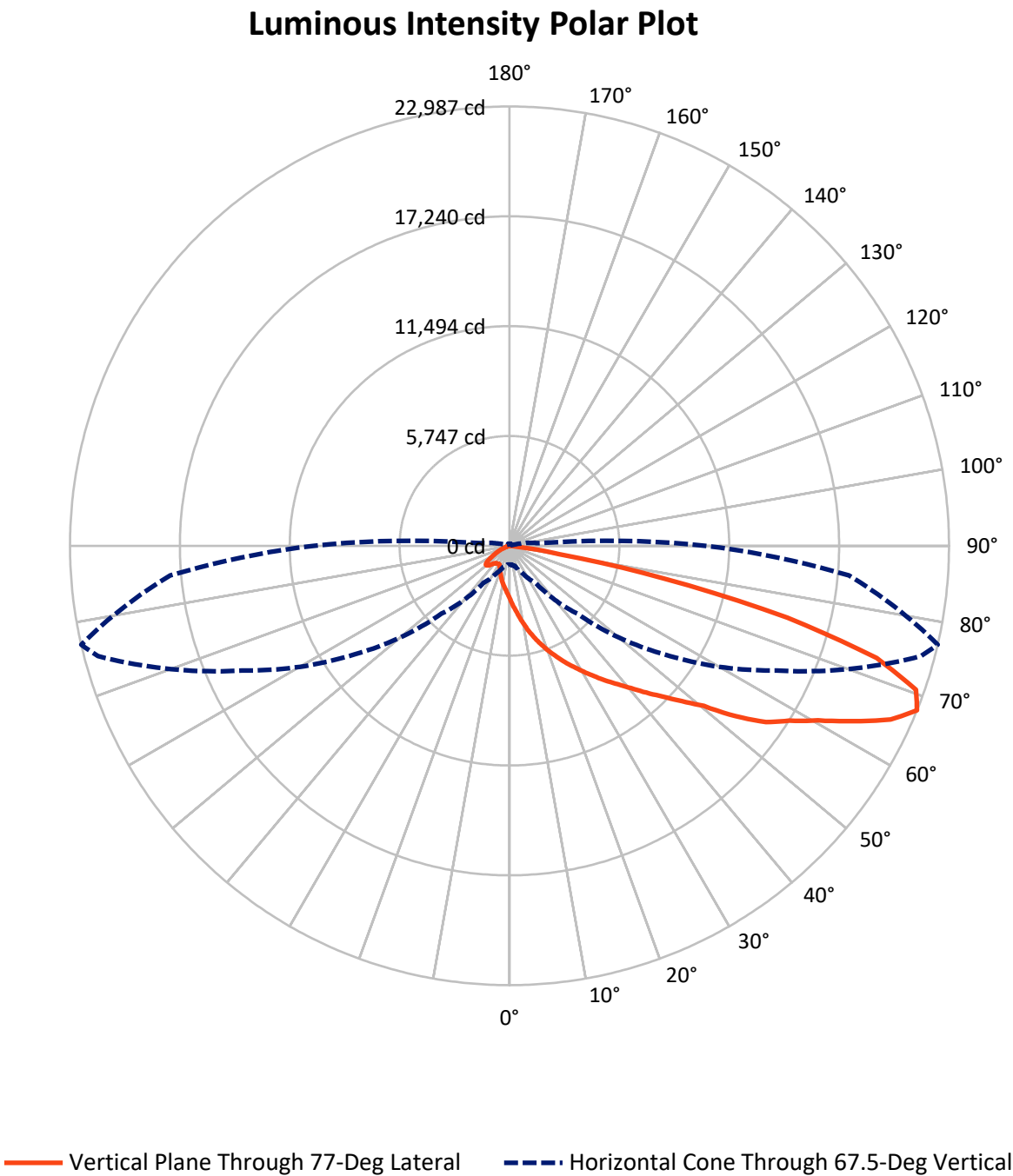
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.0	0.0	1764.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22213.0	0.0	22213.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	23977.0	0.0	23977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.2
10°-20°	988.2	4.1
20°-30°	1907.0	8.0
30°-40°	3310.7	13.8
40°-50°	4807.0	20.0
50°-60°	5520.2	23.0
60°-70°	4792.6	20.0
70°-80°	2257.4	9.4
80°-90°	111.6	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°	23977.0	100.0
0°-180°	23977.0	100.0

Coefficient of Utilization



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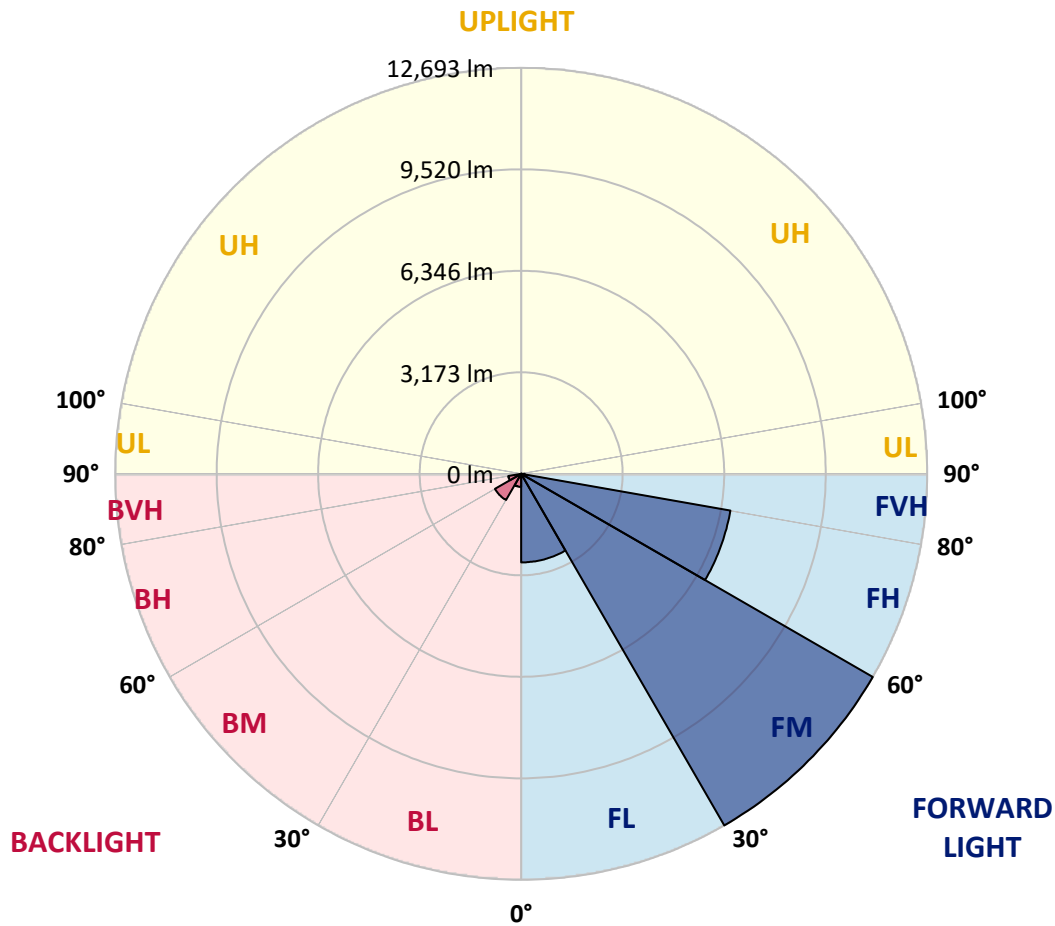
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2769.1	11.5			
FM	(30°-60°)	12692.8	52.9			
FH	(60°-80°)	6641.6	27.7			G3/7500
FVH	(80°-90°)	109.6	0.5			G2/225
BL	(0°-30°)	408.4	1.7	B1/500		
BM	(30°-60°)	945.2	3.9	B1/1000		
BH	(60°-80°)	408.4	1.7	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9
2.5°	3828.0	3851.8	3817.6	3752.0	3653.8	3589.8	3433.4	3286.0	3122.2	3070.1	2906.3
5°	4666.2	4687.1	4648.4	4576.9	4445.9	4320.8	4115.3	3807.1	3487.0	3384.3	3093.9
7.5°	5287.1	5299.0	5284.1	5218.6	5093.6	4952.1	4722.8	4358.0	3883.1	3769.9	3324.7
10°	5733.8	5772.5	5768.0	5742.7	5659.3	5544.7	5300.5	4885.1	4326.8	4180.9	3585.3
12.5°	6030.1	6073.3	6098.6	6155.1	6150.7	6077.7	5863.3	5424.1	4769.0	4597.7	3878.6
15°	6116.4	6162.6	6259.4	6390.4	6506.5	6543.7	6393.4	5952.7	5255.8	5037.0	4179.4
17.5°	6067.3	6138.8	6254.9	6461.9	6716.5	6884.7	6868.3	6463.3	5698.0	5447.9	4474.2
20°	6176.0	6244.5	6335.3	6509.5	6805.8	7111.0	7233.1	6951.7	6137.3	5875.2	4783.9
22.5°	6777.5	6765.6	6774.5	6802.8	6980.0	7282.2	7533.9	7395.4	6572.0	6304.0	5111.4
25°	7730.4	7676.8	7586.0	7432.6	7388.0	7533.9	7795.9	7788.5	7030.6	6743.3	5446.4
27.5°	8823.3	8814.3	8601.4	8232.2	8023.7	7967.1	8092.2	8171.1	7484.7	7178.0	5782.9
30°	9870.0	9893.8	9606.4	9195.5	8812.8	8591.0	8477.8	8534.4	7946.3	7647.0	6129.8
32.5°	10781.2	10806.5	10493.8	10012.9	9539.4	9271.4	9033.2	8893.2	8449.5	8123.5	6511.0
35°	11550.9	11576.3	11217.4	10685.9	10181.1	9938.5	9669.0	9286.3	8955.8	8652.0	6935.3
37.5°	12238.8	12231.4	11750.5	11214.4	10718.6	10526.6	10385.1	9770.2	9476.9	9183.6	7405.8
40°	12645.3	12676.6	12265.6	11674.5	11193.6	11053.6	11044.7	10370.2	10078.4	9794.0	7921.0
42.5°	12764.4	12819.5	12521.7	12036.3	11600.1	11448.2	11682.0	11019.4	10778.2	10501.3	8503.1
45°	12550.0	12603.6	12468.1	12131.6	11877.0	11778.7	12229.9	11692.4	11525.6	11251.7	9159.8
47.5°	11924.7	11991.7	12024.4	11952.9	11950.0	12049.7	12721.2	12401.1	12413.0	12133.1	9920.6
50°	10714.2	10827.3	11128.1	11381.2	11772.8	12264.1	13199.2	13169.4	13413.6	13172.4	10912.2
52.5°	8513.6	8674.4	9710.7	10403.0	11282.9	12223.9	13724.7	14402.2	15169.0	14816.1	12310.3
55°	6841.5	6841.5	7684.2	8979.6	10327.1	11958.9	13954.0	15203.2	16364.6	16281.2	13294.5
57.5°	5577.4	5644.4	6181.9	7326.9	8943.9	11327.6	14095.5	15706.5	17327.9	17266.9	14256.3
60°	3442.4	3586.8	4602.2	5732.3	7370.1	10203.5	14006.1	16215.7	18496.7	18545.8	15414.7
62.5°	1938.6	1992.2	2444.8	4124.3	5730.8	8692.2	13322.7	16500.1	19991.6	20200.0	16608.8
65°	1338.5	1365.3	1539.5	2566.9	3972.4	6920.4	11987.2	16322.9	21489.4	21910.8	17621.2
67.5°	972.3	985.7	1094.3	1567.8	2356.9	5017.6	9893.8	15429.5	22283.0	22987.2	17814.8
70°	747.4	756.4	835.3	1030.3	1392.1	3096.9	7185.5	13653.3	21708.3	22549.5	16823.2
72.5°	607.5	616.4	677.5	762.3	923.1	1831.4	4355.1	11087.9	19171.2	20079.4	14321.8
75°	512.2	524.1	579.2	634.3	723.6	1176.2	2042.8	7721.5	14417.1	15012.7	9959.3
77.5°	284.4	262.0	470.5	525.6	610.5	744.5	955.9	4544.1	8074.3	8239.6	4419.1
80°	177.2	183.1	373.7	422.8	469.0	375.2	437.7	1749.5	2799.1	2659.2	856.1
82.5°	10.4	23.8	287.4	305.2	321.6	160.8	165.3	594.1	674.5	619.4	151.9
85°	0.0	0.0	131.0	105.7	111.7	46.2	47.6	138.5	90.8	98.3	29.8
87.5°	0.0	0.0	0.0	3.0	0.0	4.5	8.9	11.9	4.5	6.0	10.4
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°	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9	2764.9
2.5°	2802.1	2697.9	2486.5	2279.5	2111.3	1954.9	1843.3	1737.6	1684.0	1681.0	1678.0
5°	2887.0	2668.1	2245.3	1871.6	1570.8	1329.6	1173.3	1061.6	1005.0	985.7	982.7
7.5°	3006.1	2677.1	2033.8	1514.2	1159.9	952.9	863.6	827.8	815.9	802.5	799.5
10°	3156.5	2697.9	1844.8	1219.4	914.2	810.0	774.2	759.3	750.4	741.5	738.5
12.5°	3324.7	2717.3	1657.2	1012.5	804.0	750.4	725.1	707.2	695.3	684.9	681.9
15°	3488.5	2729.2	1462.1	868.0	747.4	704.3	677.5	658.1	641.7	629.8	628.3
17.5°	3650.8	2745.5	1279.0	781.7	701.3	658.1	631.3	607.5	594.1	580.7	579.2
20°	3831.0	2742.6	1106.3	720.6	655.1	611.9	583.7	561.3	547.9	533.0	531.5
22.5°	3997.7	2727.7	954.4	668.5	607.5	565.8	534.5	512.2	498.8	486.9	485.4
25°	4189.8	2715.8	827.8	620.9	562.8	521.1	486.9	466.0	451.1	440.7	439.2
27.5°	4374.4	2697.9	735.5	577.7	519.6	479.4	446.7	422.8	409.4	402.0	402.0
30°	4556.1	2693.4	701.3	536.0	480.9	440.7	408.0	385.6	375.2	372.2	370.7
32.5°	4774.9	2705.3	716.2	521.1	445.2	405.0	373.7	357.3	346.9	346.9	346.9
35°	5008.7	2702.4	738.5	534.5	421.4	369.2	345.4	335.0	324.6	324.6	324.6
37.5°	5302.0	2706.8	756.4	556.9	412.4	339.5	326.1	312.7	306.7	306.7	306.7
40°	5739.7	2854.2	747.4	576.2	409.4	318.6	291.8	287.4	282.9	282.9	282.9
42.5°	6275.7	3174.4	759.3	577.7	408.0	303.7	268.0	276.9	266.5	265.0	263.5
45°	6862.4	3524.2	835.3	546.4	406.5	296.3	256.1	266.5	250.1	250.1	250.1
47.5°	7444.5	3871.2	912.7	501.8	402.0	294.8	245.7	239.7	235.2	236.7	236.7
50°	8247.1	4154.1	942.5	440.7	391.6	291.8	226.3	227.8	224.8	227.8	227.8
52.5°	9121.0	4213.6	906.7	372.2	361.8	282.9	212.9	218.9	217.4	220.4	220.4
55°	9666.0	4149.6	748.9	309.7	315.6	247.2	199.5	211.4	211.4	211.4	211.4
57.5°	10228.8	3877.1	531.5	251.6	262.0	202.5	187.6	204.0	202.5	201.0	201.0
60°	10633.8	3436.4	349.9	207.0	208.4	166.8	174.2	192.1	190.6	183.1	183.1
62.5°	10936.0	2949.5	224.8	175.7	159.3	150.4	159.3	174.2	168.2	151.9	148.9
65°	10901.8	2275.1	172.7	150.4	131.0	131.0	138.5	151.9	134.0	107.2	104.2
67.5°	10266.0	1539.5	142.9	126.6	110.2	108.7	114.6	126.6	114.6	90.8	87.8
70°	9130.0	1006.5	114.6	98.3	87.8	80.4	92.3	108.7	96.8	73.0	70.0
72.5°	7410.3	613.4	86.4	71.5	64.0	52.1	73.0	89.3	77.4	53.6	50.6
75°	4794.3	312.7	59.6	46.2	34.2	31.3	53.6	67.0	53.6	32.8	28.3
77.5°	1834.3	131.0	32.8	20.8	17.9	14.9	29.8	40.2	22.3	7.4	6.0
80°	352.9	55.1	16.4	10.4	8.9	6.0	4.5	3.0	0.0	0.0	0.0
82.5°	61.0	17.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	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)