

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: P943656

Luminaire Tested: **GALN-SB8B-727-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

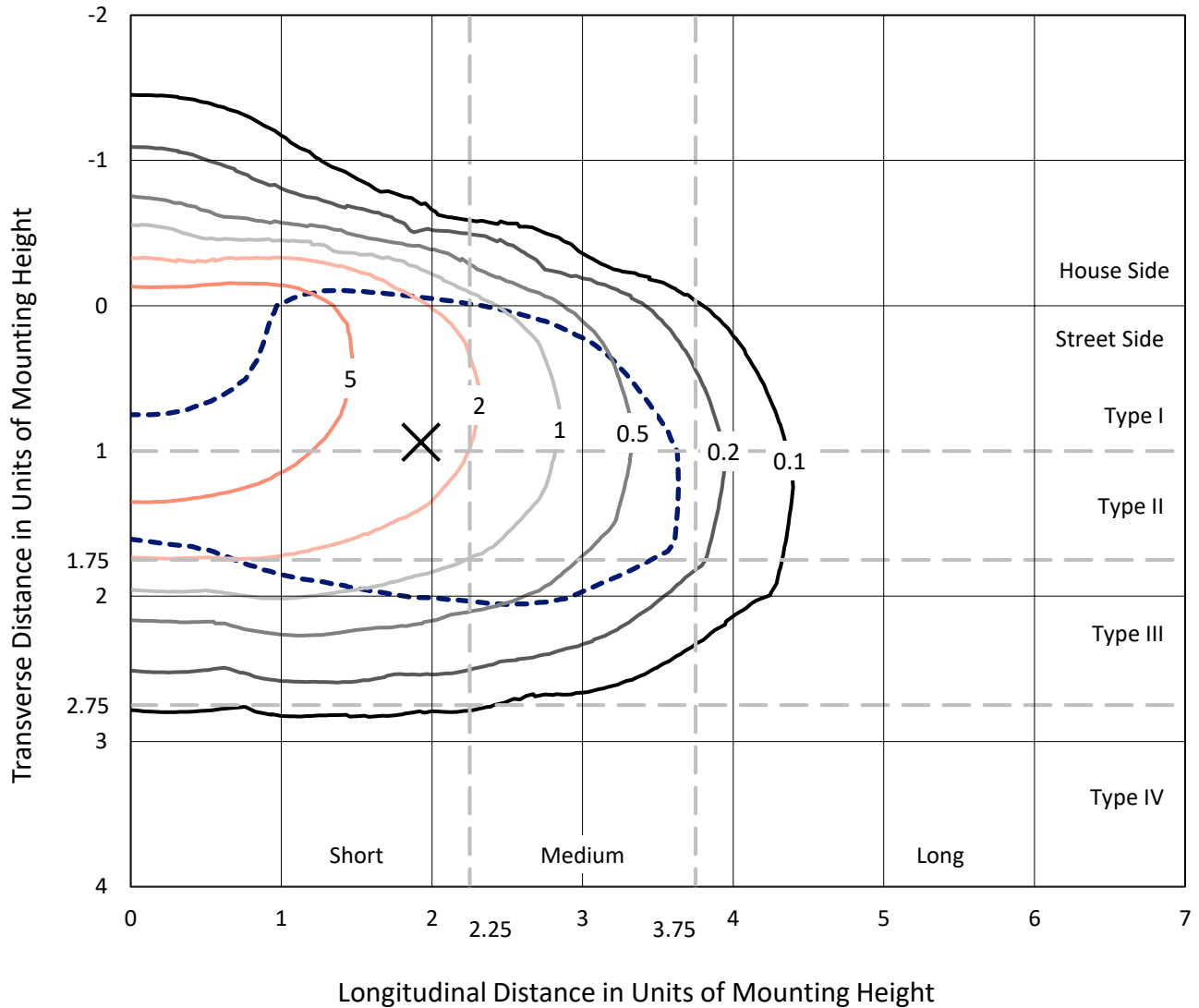
Lumens per Lamp: N/A  
Luminaire Lumens: 33123 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

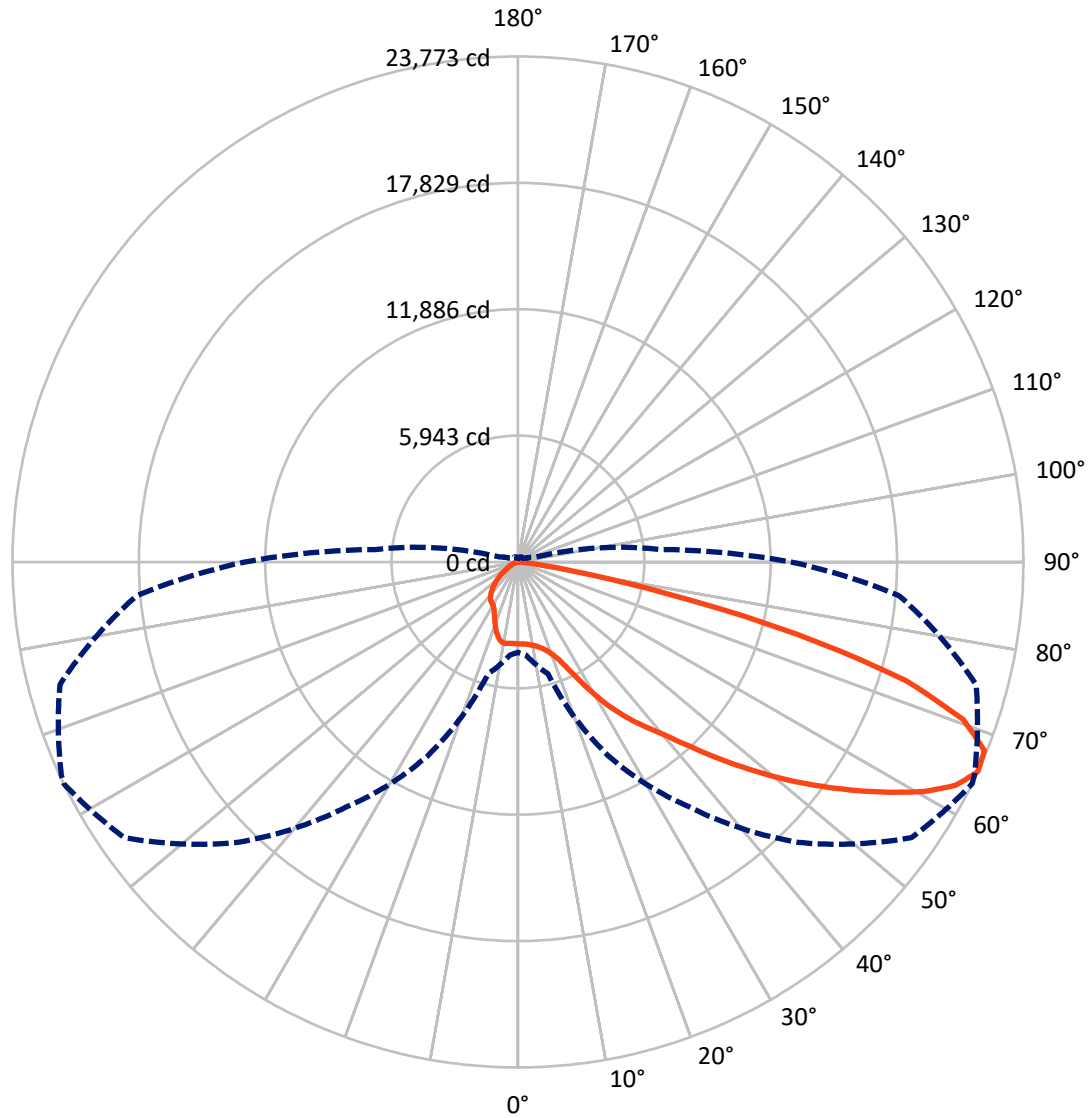
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4429.6	0.0	4429.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28693.4	0.0	28693.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	33123.0	0.0	33123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.4	1.1
10°-20°	964.0	2.9
20°-30°	1826.8	5.5
30°-40°	3696.5	11.2
40°-50°	6297.1	19.0
50°-60°	8563.6	25.9
60°-70°	8041.6	24.3
70°-80°	3221.8	9.7
80°-90°	156.1	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°	33123.0	100.0
0°-180°	33123.0	100.0

**Coefficient of Utilization**



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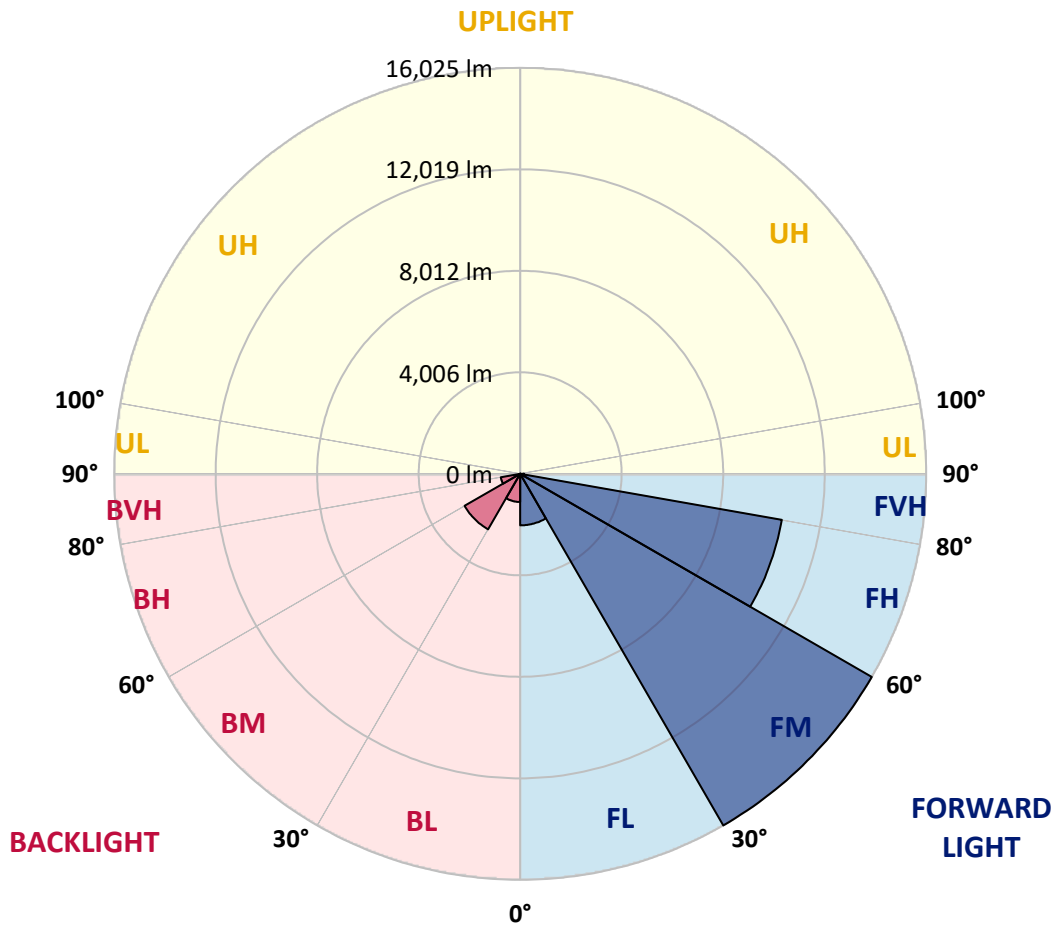
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.1	6.1			
FM (30°-60°)	16024.9	48.4			
FH (60°-80°)	10486.0	31.7			G4/12000
FVH (80°-90°)	148.5	0.4			G2/225
BL (0°-30°)	1112.1	3.4	B3/2500		
BM (30°-60°)	2532.3	7.6	B3/5000		
BH (60°-80°)	777.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.6	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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5
2.5°	3839.2	3865.9	3859.2	3852.5	3850.3	3854.8	3857.0	3854.8	3854.8	3854.8	3857.0
5°	3765.9	3788.2	3788.2	3803.7	3825.9	3852.5	3872.5	3877.0	3881.4	3888.1	3885.9
7.5°	3626.1	3643.8	3657.1	3708.2	3763.7	3834.8	3894.7	3925.8	3930.3	3954.7	3963.6
10°	3530.6	3552.8	3575.0	3628.3	3708.2	3814.8	3916.9	3992.4	4003.5	4061.3	4087.9
12.5°	3526.1	3548.3	3577.2	3634.9	3728.2	3841.4	3965.8	4074.6	4094.6	4179.0	4234.5
15°	3572.8	3599.4	3626.1	3697.1	3797.0	3934.7	4067.9	4203.4	4223.4	4343.3	4403.2
17.5°	3668.2	3703.8	3723.8	3794.8	3901.4	4054.6	4230.0	4385.5	4403.2	4543.1	4618.6
20°	3857.0	3899.2	3905.8	3963.6	4067.9	4232.3	4441.0	4634.2	4656.4	4816.2	4900.6
22.5°	4247.8	4307.7	4254.5	4283.3	4376.6	4540.9	4767.4	5011.6	5042.7	5224.8	5300.3
25°	4936.1	5020.5	4882.9	4834.0	4874.0	5045.0	5329.2	5637.8	5673.4	5819.9	5857.7
27.5°	6288.4	6179.6	5970.9	5766.6	5646.7	5744.4	6064.2	6446.1	6490.5	6632.6	6588.2
30°	7773.9	7678.5	7396.4	6943.5	6659.2	6643.7	6939.0	7365.4	7416.4	7551.9	7416.4
32.5°	9261.7	9170.6	8864.2	8306.9	7813.9	7569.6	7773.9	8246.9	8273.5	8360.1	8160.3
35°	10725.0	10631.7	10325.3	9754.6	9148.4	8593.3	8553.3	9086.2	9095.1	9186.2	8888.6
37.5°	12197.1	12119.4	11793.0	11233.5	10636.1	9870.1	9499.3	9881.2	9892.3	9981.1	9672.5
40°	13247.4	13280.7	13056.5	12623.5	12110.5	11273.4	10560.6	10727.2	10660.6	10809.3	10625.0
42.5°	14149.0	14215.6	14020.2	13802.6	13505.0	12767.8	11875.2	11846.3	11739.7	11819.7	11628.7
45°	14928.3	14983.9	14808.4	14757.4	14750.7	14233.3	13311.8	13138.6	12989.9	12974.3	12745.6
47.5°	15214.8	15321.4	15396.9	15567.9	15900.9	15683.3	14797.3	14528.7	14362.1	14240.0	13878.1
50°	15323.6	15436.8	15694.4	16191.8	16980.1	17073.3	16276.2	15974.2	15769.9	15547.9	15014.9
52.5°	15177.0	15379.1	15725.5	16562.6	17706.2	18188.0	17695.1	17430.8	17197.7	16835.7	16045.3
55°	14313.3	14515.3	15223.7	16558.2	18068.1	18969.6	19036.3	18918.6	18656.6	18085.9	16877.9
57.5°	12492.5	12792.2	13913.6	15994.2	18061.5	19642.4	20350.8	20435.2	20142.1	19324.9	17533.0
60°	9970.0	10376.3	11744.2	14744.0	17504.1	20006.6	21503.2	21925.1	21614.2	20546.2	18063.7
62.5°	6956.8	7427.5	8722.1	12785.6	16229.6	19744.6	22344.8	23124.2	22888.8	21638.7	18268.0
65°	4243.4	4394.3	5438.0	10061.0	14062.4	18647.7	22604.6	23772.6	23694.8	22307.0	17966.0
67.5°	2826.7	2953.3	3253.0	6899.1	10915.9	16456.0	21982.8	23659.3	23681.5	22198.2	16860.2
70°	1703.1	1811.9	2007.3	4012.4	7074.5	13025.4	20057.7	22216.0	22344.8	20743.8	14764.0
72.5°	701.7	775.0	952.6	1818.6	3663.8	8266.9	15972.0	19074.0	19373.8	17441.9	11331.2
75°	397.5	435.2	559.6	912.6	1589.9	3852.5	9674.7	13540.5	13982.4	12021.7	6816.9
77.5°	264.2	282.0	361.9	590.7	894.9	1314.5	4134.6	7054.5	7898.3	6566.0	2951.0
80°	177.6	193.2	248.7	395.2	581.8	564.0	1316.8	2613.5	3215.3	2256.0	719.4
82.5°	119.9	122.1	177.6	259.8	368.6	273.1	388.6	812.7	1021.4	652.8	273.1
85°	68.8	66.6	131.0	151.0	164.3	113.2	117.7	244.3	319.8	275.3	155.4
87.5°	8.9	13.3	51.1	40.0	22.2	24.4	24.4	42.2	62.2	66.6	33.3
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°	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5	3852.5
2.5°	3857.0	3854.8	3848.1	3841.4	3825.9	3817.0	3821.5	3817.0	3814.8	3817.0	3825.9
5°	3885.9	3879.2	3861.4	3839.2	3808.1	3770.4	3746.0	3710.4	3677.1	3657.1	3661.6
7.5°	3963.6	3956.9	3932.5	3870.3	3770.4	3612.7	3468.4	3341.8	3246.4	3190.8	3193.1
10°	4087.9	4076.8	4039.1	3901.4	3639.4	3295.2	3008.8	2771.2	2615.7	2542.5	2535.8
12.5°	4234.5	4221.2	4154.5	3872.5	3390.7	2853.3	2458.1	2193.8	2049.5	1985.1	1978.5
15°	4407.7	4389.9	4258.9	3734.9	3028.7	2364.8	2002.9	1805.3	1712.0	1654.3	1656.5
17.5°	4623.1	4592.0	4336.6	3528.4	2635.7	1991.8	1723.1	1574.3	1492.2	1436.7	1432.2
20°	4902.8	4851.8	4398.8	3281.9	2273.8	1756.4	1534.4	1410.0	1347.8	1299.0	1290.1
22.5°	5293.6	5220.4	4474.3	3015.4	2018.4	1594.3	1394.5	1303.4	1252.4	1196.8	1188.0
25°	5777.7	5691.1	4567.5	2769.0	1843.0	1454.4	1292.3	1216.8	1156.9	1092.5	1085.8
27.5°	6455.0	6299.5	4678.6	2566.9	1692.0	1334.5	1199.1	1114.7	1045.9	992.6	981.5
30°	7209.9	6954.6	4776.3	2444.8	1554.3	1223.5	1076.9	992.6	928.2	890.4	883.8
32.5°	7924.9	7578.5	4840.7	2391.5	1430.0	1096.9	943.7	852.7	803.8	792.7	799.4
35°	8600.0	8142.5	4834.0	2340.4	1319.0	970.4	812.7	719.4	681.7	688.4	688.4
37.5°	9377.1	8744.3	4787.4	2260.5	1227.9	854.9	699.5	617.3	584.0	586.2	595.1
40°	10280.9	9439.3	4758.5	2109.5	1128.0	748.3	606.2	539.6	515.2	506.3	504.1
42.5°	11244.6	10112.1	4762.9	1938.5	1003.7	652.8	541.8	486.3	464.1	457.4	455.2
45°	12212.7	10753.8	4769.6	1760.8	872.7	579.5	495.2	448.5	435.2	426.3	426.3
47.5°	13123.1	11300.1	4645.3	1569.9	743.9	524.0	457.4	426.3	415.2	404.1	404.1
50°	13971.3	11664.2	4345.5	1347.8	641.7	479.6	428.6	406.3	395.2	384.1	384.1
52.5°	14630.8	11722.0	3850.3	1119.1	570.7	446.3	410.8	390.8	377.5	366.4	364.2
55°	14923.9	11360.0	3146.4	906.0	515.2	417.5	393.0	373.0	357.5	346.4	344.2
57.5°	14848.4	10598.4	2453.6	728.3	461.9	388.6	370.8	357.5	339.7	322.0	319.8
60°	14477.6	9579.2	1849.7	606.2	413.0	357.5	346.4	335.3	310.9	284.2	279.8
62.5°	13835.9	8298.0	1319.0	501.8	359.7	322.0	317.5	308.6	273.1	224.3	219.8
65°	12854.4	6741.4	888.2	417.5	308.6	282.0	284.2	268.7	222.0	166.5	162.1
67.5°	11420.0	4929.5	568.4	342.0	257.6	235.4	237.6	228.7	188.7	142.1	135.4
70°	9592.5	3264.1	370.8	259.8	206.5	182.1	195.4	197.6	159.9	115.5	111.0
72.5°	7032.3	1927.4	259.8	193.2	151.0	126.6	159.9	164.3	128.8	86.6	82.2
75°	4008.0	914.8	195.4	139.9	93.3	88.8	124.3	124.3	88.8	57.7	53.3
77.5°	1683.1	381.9	137.7	91.0	53.3	51.1	84.4	77.7	44.4	26.6	26.6
80°	486.3	171.0	73.3	44.4	22.2	20.0	33.3	24.4	11.1	4.4	4.4
82.5°	191.0	75.5	28.9	17.8	8.9	8.9	4.4	0.0	0.0	0.0	0.0
85°	113.2	31.1	13.3	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.9	6.7	4.4	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)