

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: P949887

Luminaire Tested: **GALN-SB4C-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24988 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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



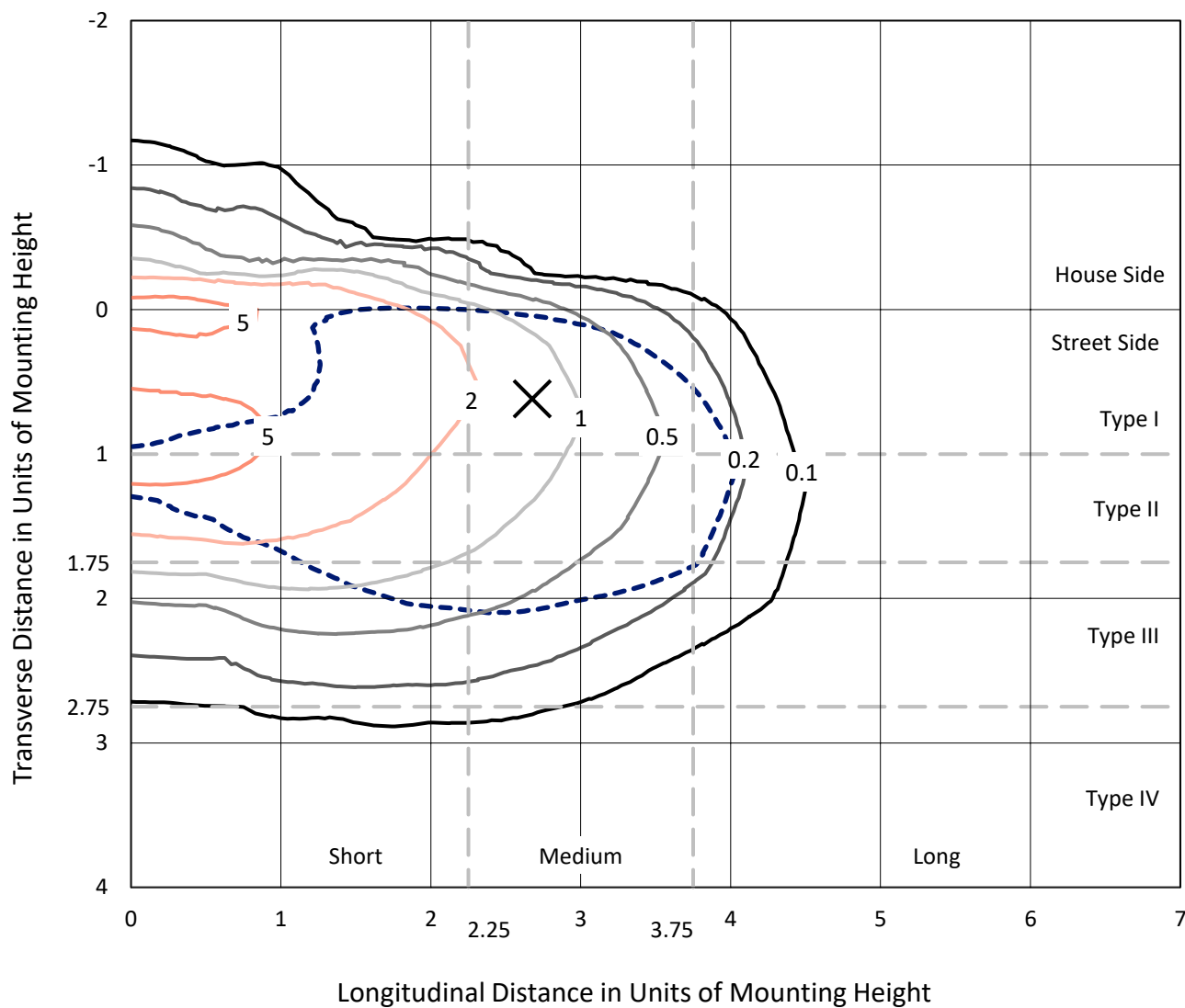
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

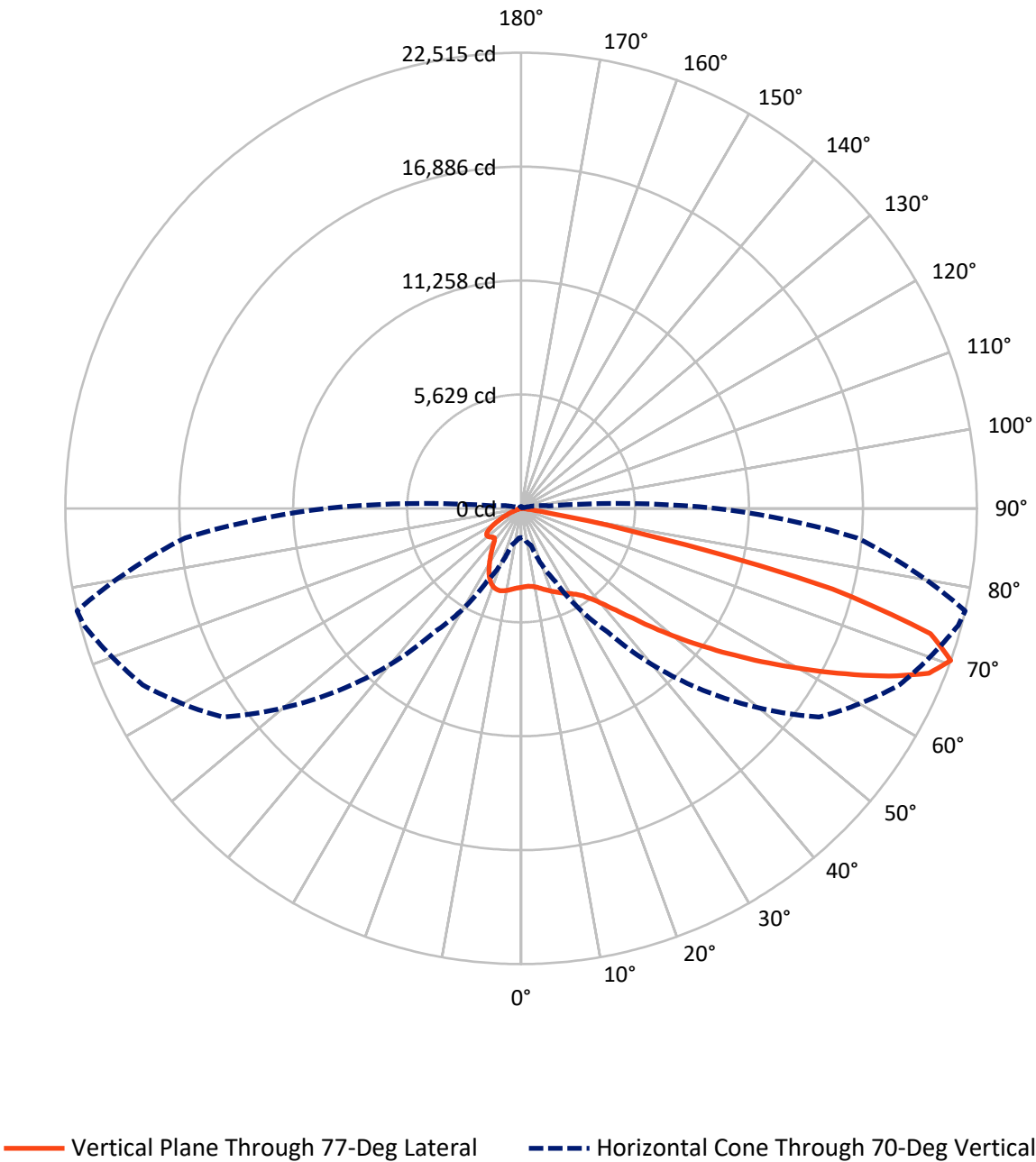
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.1	0.0	2634.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22353.9	0.0	22353.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	24988.0	0.0	24988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	1.3
10°-20°	797.4	3.2
20°-30°	1233.4	4.9
30°-40°	2238.1	9.0
40°-50°	4224.6	16.9
50°-60°	6104.3	24.4
60°-70°	6497.8	26.0
70°-80°	3443.4	13.8
80°-90°	113.1	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°	24988.0	100.0
0°-180°	24988.0	100.0

Coefficient of Utilization



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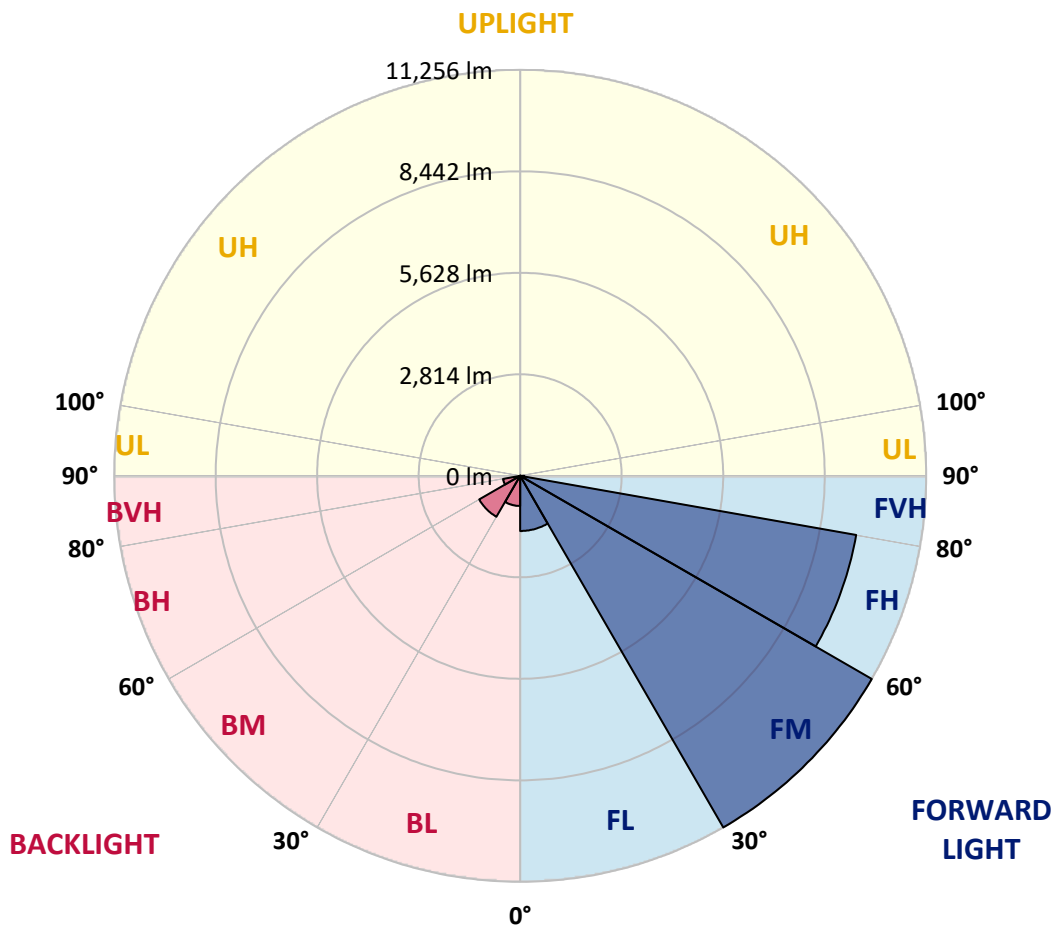
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1529.9	6.1			
FM	(30°-60°)	11255.7	45.0			
FH	(60°-80°)	9458.3	37.9			G4/12000
FVH	(80°-90°)	110.0	0.4			G2/225
BL	(0°-30°)	836.9	3.3	B2/1000		
BM	(30°-60°)	1311.3	5.2	B2/2500		
BH	(60°-80°)	482.9	1.9	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7
2.5°	3659.4	3692.5	3687.8	3709.9	3717.8	3749.3	3780.9	3823.5	3870.9	3869.3	3900.8
5°	3452.7	3485.8	3493.7	3523.7	3561.6	3610.5	3675.2	3760.4	3848.8	3863.0	3926.1
7.5°	3208.1	3242.8	3263.3	3323.3	3392.7	3493.7	3599.4	3724.1	3870.9	3891.4	4012.9
10°	2963.5	2995.1	3021.9	3107.1	3217.6	3367.5	3539.5	3719.4	3916.6	3946.6	4118.6
12.5°	2812.0	2842.0	2872.0	2946.1	3083.4	3266.5	3500.0	3741.5	3992.4	4035.0	4262.2
15°	2758.4	2785.2	2808.9	2875.1	3002.9	3211.2	3492.1	3787.2	4088.6	4145.4	4435.8
17.5°	2766.2	2780.4	2796.2	2846.7	2971.4	3186.0	3506.3	3866.1	4202.2	4252.7	4609.4
20°	2812.0	2819.9	2821.5	2856.2	2966.7	3182.8	3534.7	3941.9	4309.5	4377.4	4781.4
22.5°	2870.4	2873.6	2870.4	2894.1	2996.6	3206.5	3572.6	4033.4	4429.5	4492.6	4954.9
25°	3143.4	3083.4	3007.7	2961.9	3047.1	3252.3	3629.4	4156.5	4560.4	4622.0	5123.8
27.5°	3990.8	3818.8	3547.4	3242.8	3151.3	3318.5	3708.3	4281.1	4693.0	4748.2	5305.3
30°	5366.8	5141.1	4680.4	3993.9	3485.8	3457.4	3810.9	4405.8	4833.4	4893.4	5499.4
32.5°	6746.0	6690.7	6159.0	5209.0	4238.5	3766.7	3981.3	4574.6	5019.6	5067.0	5761.3
35°	8140.9	8028.9	7593.4	6654.5	5398.4	4396.3	4265.4	4795.6	5264.2	5317.9	6143.2
37.5°	9209.2	9141.4	8871.6	8098.3	6774.4	5368.4	4751.4	5138.0	5619.3	5679.2	6632.4
40°	10152.9	10121.3	10029.8	9520.1	8312.9	6640.3	5507.2	5668.2	6111.6	6182.6	7232.0
42.5°	10894.6	10968.7	11020.8	10878.8	9898.8	8092.0	6523.5	6413.0	6798.1	6870.6	7995.8
45°	11653.6	11678.8	11888.7	12093.8	11473.7	9610.1	7669.1	7285.7	7651.8	7741.7	8911.0
47.5°	12141.2	12242.2	12611.4	12972.8	12797.6	11115.5	8900.0	8316.1	8641.2	8810.0	9936.7
50°	12177.5	12368.4	12876.5	13506.2	13761.8	12548.3	10238.1	9490.1	9835.7	10021.9	11031.8
52.5°	11573.1	11869.8	12657.2	13578.7	14282.5	13761.8	11622.0	10664.2	11107.6	11350.6	12168.0
55°	8873.1	9261.3	11831.9	13184.2	14303.1	14681.8	12969.6	11887.1	12524.6	12799.2	13395.7
57.5°	7730.7	7926.3	9302.3	12499.4	13922.8	15052.6	14187.9	13051.7	14066.4	14407.2	14555.5
60°	6432.0	6689.2	7801.7	11379.0	13406.7	15088.9	15264.1	14554.0	15737.5	16120.9	15619.1
62.5°	4371.1	4650.4	5756.6	9453.8	12701.4	15071.5	16146.2	16100.4	17594.8	18006.6	16520.2
65°	2707.9	2883.0	3612.1	7719.6	11715.1	15090.5	17069.3	17978.2	19554.7	19972.8	17217.6
67.5°	2139.8	2220.3	2600.6	5927.0	10015.6	14664.4	17990.9	19744.0	21399.3	21730.7	17430.7
70°	1437.6	1486.5	1892.0	3973.4	7451.3	12698.2	17973.5	20630.9	22349.3	22515.0	16654.3
72.5°	757.4	795.3	1106.2	1840.0	4500.5	9026.2	15150.4	19570.4	21404.1	21154.8	14235.2
75°	378.7	441.8	744.8	934.2	1922.0	5033.8	9408.1	15429.8	16846.8	15881.1	9133.5
77.5°	287.2	347.2	615.4	615.4	669.1	1694.8	3984.5	8415.5	7762.2	6463.5	2681.0
80°	183.0	236.7	538.1	465.5	279.3	430.8	1038.3	2357.5	1649.0	1254.5	487.6
82.5°	107.3	154.6	448.2	307.7	156.2	159.4	293.5	501.8	427.6	333.0	149.9
85°	42.6	101.0	307.7	121.5	61.5	39.5	88.4	107.3	88.4	66.3	37.9
87.5°	0.0	23.7	53.7	0.0	4.7	3.2	6.3	7.9	7.9	6.3	12.6
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°	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7	3897.7
2.5°	3915.0	3918.2	3927.7	3929.2	3907.1	3878.7	3867.7	3863.0	3844.0	3842.4	3845.6
5°	3962.4	3976.6	3962.4	3921.3	3823.5	3686.2	3582.1	3496.9	3419.5	3395.9	3381.7
7.5°	4057.1	4071.3	4028.7	3867.7	3621.5	3348.5	3102.4	2928.8	2772.6	2714.2	2690.5
10°	4192.8	4211.7	4077.6	3752.5	3317.0	2878.3	2461.7	2168.2	1939.4	1846.3	1806.8
12.5°	4363.2	4371.1	4104.4	3577.3	2920.9	2294.4	1704.2	1390.2	1186.7	1110.9	1087.2
15°	4551.0	4539.9	4107.6	3339.1	2381.2	1622.2	1112.5	913.7	831.6	806.4	806.4
17.5°	4748.2	4702.5	4044.4	2995.1	1789.5	1109.3	825.3	778.0	763.8	757.4	755.9
20°	4942.3	4839.7	3929.2	2545.3	1284.5	828.5	749.6	735.4	727.5	724.3	721.1
22.5°	5119.1	4943.9	3732.0	2023.0	932.6	732.2	708.5	695.9	681.7	675.4	673.8
25°	5291.1	5003.9	3454.3	1535.4	746.4	684.9	665.9	642.2	623.3	615.4	612.3
27.5°	5458.3	5041.7	3107.1	1136.2	665.9	640.7	606.0	572.8	558.6	555.5	552.3
30°	5636.6	5054.4	2712.6	847.4	617.0	585.4	534.9	497.1	489.2	490.8	490.8
32.5°	5854.4	5073.3	2314.9	694.3	576.0	519.2	459.2	419.7	413.4	419.7	418.2
35°	6114.8	5111.2	1931.5	639.1	539.7	451.3	386.6	353.5	347.2	351.9	350.3
37.5°	6468.2	5172.7	1573.3	628.0	509.7	394.5	325.1	298.2	298.2	299.8	298.2
40°	6938.5	5336.8	1252.9	620.2	493.9	351.9	274.6	263.5	268.3	271.4	271.4
42.5°	7511.3	5685.6	1036.8	610.7	476.6	333.0	249.3	244.6	252.5	255.6	255.6
45°	8153.6	6127.4	961.0	594.9	460.8	345.6	238.3	232.0	241.4	243.0	244.6
47.5°	8817.9	6559.8	951.5	577.6	445.0	364.5	235.1	220.9	232.0	233.5	235.1
50°	9490.1	6842.2	961.0	550.7	419.7	364.5	236.7	209.9	219.3	224.1	225.7
52.5°	10167.1	6971.6	954.7	492.3	375.6	342.4	236.7	200.4	209.9	213.0	213.0
55°	10823.5	6946.4	858.4	405.5	318.8	303.0	230.4	192.5	198.8	200.4	200.4
57.5°	11342.7	6594.5	680.1	315.6	258.8	252.5	209.9	183.0	187.8	186.2	186.2
60°	11614.1	5821.3	486.0	243.0	203.6	198.8	184.6	170.4	173.6	165.7	164.1
62.5°	11617.3	4798.7	325.1	192.5	162.5	157.8	157.8	153.1	149.9	134.1	129.4
65°	11369.5	3664.1	216.2	153.1	131.0	123.1	132.6	131.0	119.9	97.8	94.7
67.5°	10807.8	2401.7	164.1	119.9	101.0	96.3	105.7	110.5	102.6	82.1	80.5
70°	9652.7	1398.1	135.7	93.1	75.7	71.0	85.2	94.7	85.2	66.3	63.1
72.5°	8017.9	754.3	110.5	69.4	52.1	47.3	67.9	77.3	67.9	48.9	47.3
75°	5202.7	404.0	85.2	45.8	26.8	30.0	50.5	56.8	47.3	31.6	28.4
77.5°	1746.9	178.3	53.7	22.1	12.6	12.6	30.0	34.7	22.1	11.0	9.5
80°	389.8	74.2	22.1	9.5	4.7	4.7	6.3	6.3	3.2	0.0	0.0
82.5°	127.8	30.0	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.9	11.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	1.6	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)