

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: P950244

Luminaire Tested: **GALN-SB4D-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950244
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-SB4D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA 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: 33954 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

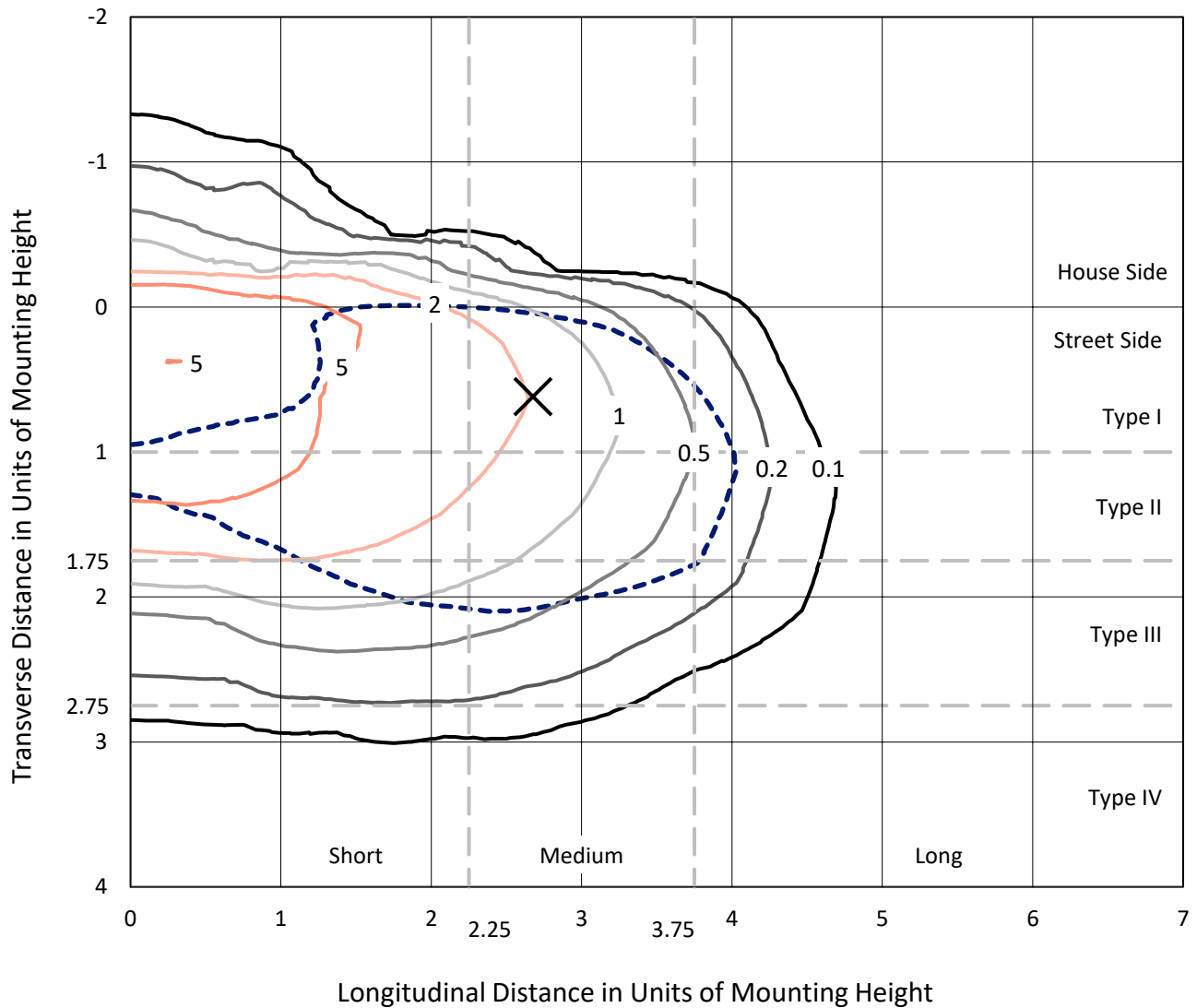
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

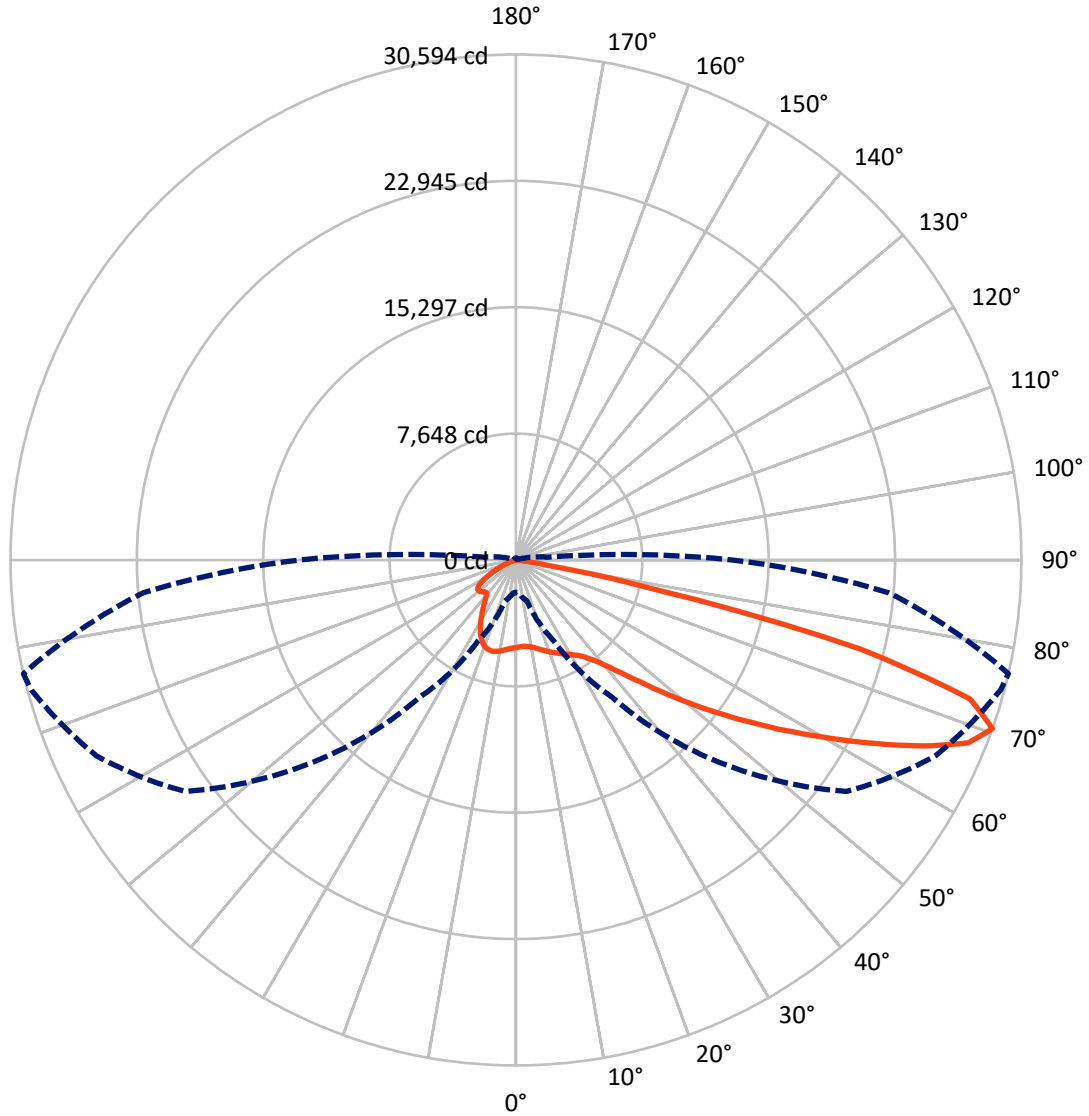
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3579.2	0.0	3579.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30374.8	0.0	30374.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	33954.0	0.0	33954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	1.3
10°-20°	1083.6	3.2
20°-30°	1676.0	4.9
30°-40°	3041.1	9.0
40°-50°	5740.5	16.9
50°-60°	8294.5	24.4
60°-70°	8829.3	26.0
70°-80°	4678.9	13.8
80°-90°	153.6	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°	33954.0	100.0
0°-180°	33954.0	100.0

Coefficient of Utilization



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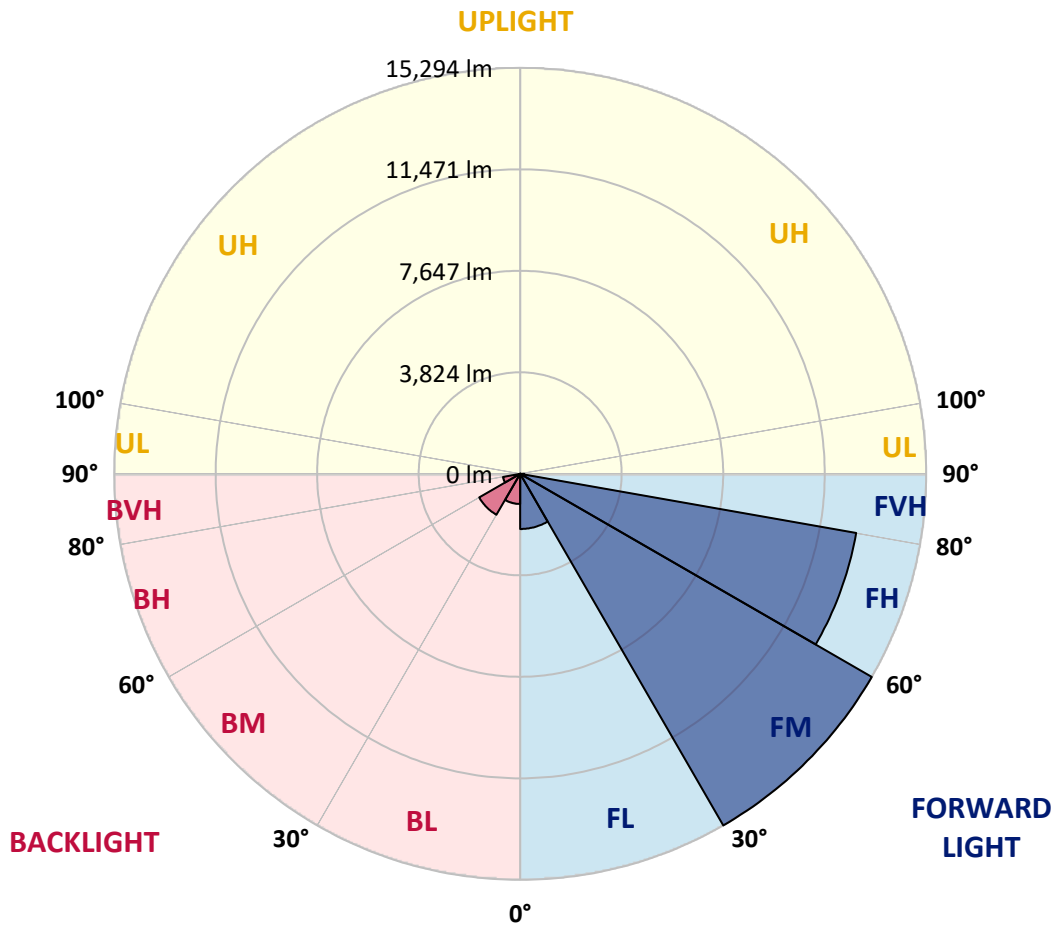
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2078.8	6.1			
FM (30°-60°)	15294.4	45.0			
FH (60°-80°)	12852.1	37.9			G5
FVH (80°-90°)	149.5	0.4			G2/225
BL (0°-30°)	1137.2	3.3	B3/2500		
BM (30°-60°)	1781.8	5.2	B2/2500		
BH (60°-80°)	656.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2
2.5°	4972.4	5017.5	5011.0	5041.0	5051.8	5094.7	5137.5	5195.4	5259.8	5257.6	5300.5
5°	4691.5	4736.6	4747.3	4788.0	4839.5	4906.0	4993.9	5109.7	5229.7	5249.0	5334.8
7.5°	4359.2	4406.4	4434.2	4515.7	4610.1	4747.3	4891.0	5060.3	5259.8	5287.6	5452.7
10°	4026.8	4069.7	4106.2	4222.0	4372.1	4575.8	4809.5	5053.9	5321.9	5362.7	5596.4
12.5°	3821.0	3861.7	3902.5	4003.2	4189.8	4438.5	4755.9	5083.9	5424.9	5482.8	5791.5
15°	3748.1	3784.5	3816.7	3906.8	4080.4	4363.5	4745.1	5146.1	5555.7	5632.9	6027.4
17.5°	3758.8	3778.1	3799.5	3868.2	4037.6	4329.2	4764.4	5253.3	5710.0	5778.7	6263.3
20°	3821.0	3831.7	3833.9	3881.0	4031.1	4324.9	4803.0	5356.2	5855.9	5948.1	6497.0
22.5°	3900.3	3904.6	3900.3	3932.5	4071.9	4357.0	4854.5	5480.6	6018.8	6104.6	6732.8
25°	4271.3	4189.8	4086.9	4024.7	4140.5	4419.2	4931.7	5647.9	6196.8	6280.4	6962.3
27.5°	5422.7	5189.0	4820.2	4406.4	4282.0	4509.3	5038.9	5817.3	6376.9	6451.9	7208.9
30°	7292.5	6985.9	6359.7	5427.0	4736.6	4698.0	5178.3	5986.6	6567.7	6649.2	7472.6
32.5°	9166.5	9091.5	8368.9	7078.1	5759.4	5118.2	5409.9	6216.1	6820.7	6885.1	7828.5
35°	11062.0	10909.8	10318.0	9042.2	7335.4	5973.8	5795.8	6516.3	7153.1	7226.0	8347.4
37.5°	12513.6	12421.4	12054.8	11004.1	9205.1	7294.6	6456.2	6981.6	7635.5	7717.0	9012.1
40°	13795.9	13753.0	13628.6	12936.0	11295.7	9022.9	7483.3	7702.0	8304.5	8401.0	9826.9
42.5°	14803.7	14904.4	14975.2	14782.2	13450.7	10995.5	8864.2	8714.1	9237.3	9335.9	10864.7
45°	15835.0	15869.3	16154.5	16433.3	15590.6	13058.3	10420.9	9899.8	10397.3	10519.5	12108.4
47.5°	16497.6	16634.8	17136.6	17627.6	17389.6	15103.8	12093.4	11300.0	11741.7	11971.2	13502.1
50°	16546.9	16806.4	17496.8	18352.3	18699.7	17050.8	13911.7	12895.3	13364.9	13617.9	14990.2
52.5°	15725.7	16128.8	17198.7	18451.0	19407.3	18699.7	15792.1	14490.6	15093.1	15423.3	16534.0
55°	12056.9	12584.4	16077.3	17914.9	19435.2	19949.8	17623.3	16152.4	17018.6	17391.7	18202.2
57.5°	10504.5	10770.4	12640.1	16984.3	18918.4	20453.7	19278.6	17734.8	19113.5	19576.7	19778.2
60°	8739.8	9089.3	10601.0	15461.9	18217.2	20503.0	20741.0	19776.1	21384.3	21905.3	21223.4
62.5°	5939.5	6319.0	7822.1	12846.0	17258.8	20479.4	21939.6	21877.4	23908.0	24467.6	22447.8
65°	3679.5	3917.5	4908.1	10489.5	15918.7	20505.1	23194.0	24429.0	26571.1	27139.3	23395.5
67.5°	2907.6	3016.9	3533.7	8053.7	13609.3	19926.2	24446.2	26828.4	29077.7	29528.0	23685.0
70°	1953.4	2019.9	2570.9	5399.1	10125.0	17254.5	24422.6	28033.5	30368.5	30593.7	22630.0
72.5°	1029.2	1080.7	1503.1	2500.2	6115.3	12264.9	20586.6	26592.6	29084.1	28745.3	19343.0
75°	514.6	600.4	1012.1	1269.4	2611.7	6840.0	12783.8	20966.1	22891.6	21579.4	12410.7
77.5°	390.2	471.7	836.2	836.2	909.1	2302.9	5414.1	11435.1	10547.4	8782.7	3643.0
80°	248.7	321.6	731.2	632.5	379.5	585.4	1410.9	3203.5	2240.7	1704.7	662.6
82.5°	145.8	210.1	609.0	418.1	212.3	216.6	398.8	681.9	581.1	452.4	203.7
85°	57.9	137.2	418.1	165.1	83.6	53.6	120.1	145.8	120.1	90.1	51.5
87.5°	0.0	32.2	72.9	0.0	6.4	4.3	8.6	10.7	10.7	8.6	17.2
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°	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2
2.5°	5319.8	5324.1	5337.0	5339.1	5309.1	5270.5	5255.5	5249.0	5223.3	5221.2	5225.5
5°	5384.1	5403.4	5384.1	5328.4	5195.4	5008.9	4867.4	4751.6	4646.5	4614.4	4595.1
7.5°	5512.8	5532.1	5474.2	5255.5	4921.0	4550.0	4215.5	3979.7	3767.4	3688.0	3655.9
10°	5697.2	5722.9	5540.7	5098.9	4507.1	3911.0	3345.0	2946.2	2635.2	2508.7	2455.1
12.5°	5928.8	5939.5	5577.1	4860.9	3968.9	3117.7	2315.8	1889.1	1612.4	1509.5	1477.4
15°	6183.9	6168.9	5581.4	4537.2	3235.6	2204.3	1511.7	1241.5	1130.0	1095.7	1095.7
17.5°	6451.9	6389.8	5495.6	4069.7	2431.5	1507.4	1121.4	1057.1	1037.8	1029.2	1027.1
20°	6715.7	6576.3	5339.1	3458.6	1745.4	1125.7	1018.5	999.2	988.5	984.2	979.9
22.5°	6955.8	6717.8	5071.1	2748.9	1267.2	994.9	962.8	945.6	926.3	917.7	915.6
25°	7189.6	6799.3	4693.7	2086.3	1014.2	930.6	904.9	872.7	847.0	836.2	832.0
27.5°	7416.8	6850.8	4222.0	1543.8	904.9	870.6	823.4	778.4	759.1	754.8	750.5
30°	7659.1	6867.9	3685.9	1151.4	838.4	795.5	726.9	675.4	664.7	666.9	666.9
32.5°	7955.0	6893.7	3145.6	943.5	782.6	705.4	624.0	570.4	561.8	570.4	568.2
35°	8308.8	6945.1	2624.5	868.4	733.3	613.2	525.3	480.3	471.7	478.2	476.0
37.5°	8789.1	7028.7	2137.8	853.4	692.6	536.1	441.7	405.3	405.3	407.4	405.3
40°	9428.1	7251.7	1702.5	842.7	671.1	478.2	373.1	358.1	364.5	368.8	368.8
42.5°	10206.5	7725.6	1408.7	829.8	647.6	452.4	338.8	332.4	343.1	347.4	347.4
45°	11079.2	8326.0	1305.8	808.4	626.1	469.6	323.8	315.2	328.1	330.2	332.4
47.5°	11981.9	8913.5	1293.0	784.8	604.7	495.3	319.5	300.2	315.2	317.3	319.5
50°	12895.3	9297.3	1305.8	748.3	570.4	495.3	321.6	285.2	298.0	304.5	306.6
52.5°	13815.2	9473.1	1297.3	669.0	510.3	465.3	321.6	272.3	285.2	289.5	289.5
55°	14707.2	9438.8	1166.5	551.1	433.1	411.7	313.1	261.6	270.2	272.3	272.3
57.5°	15412.6	8960.7	924.2	428.8	351.7	343.1	285.2	248.7	255.2	253.0	253.0
60°	15781.4	7910.0	660.4	330.2	276.6	270.2	250.9	231.6	235.9	225.1	223.0
62.5°	15785.7	6520.6	441.7	261.6	220.9	214.4	214.4	208.0	203.7	182.3	175.8
65°	15449.1	4978.9	293.8	208.0	178.0	167.2	180.1	178.0	163.0	132.9	128.7
67.5°	14685.7	3263.5	223.0	163.0	137.2	130.8	143.7	150.1	139.4	111.5	109.4
70°	13116.2	1899.8	184.4	126.5	102.9	96.5	115.8	128.7	115.8	90.1	85.8
72.5°	10894.8	1024.9	150.1	94.3	70.8	64.3	92.2	105.1	92.2	66.5	64.3
75°	7069.5	548.9	115.8	62.2	36.5	40.7	68.6	77.2	64.3	42.9	38.6
77.5°	2373.6	242.3	72.9	30.0	17.2	17.2	40.7	47.2	30.0	15.0	12.9
80°	529.6	100.8	30.0	12.9	6.4	6.4	8.6	8.6	4.3	0.0	0.0
82.5°	173.7	40.7	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.5	15.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	2.1	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)