

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: P454637

Luminaire Tested: **GALN-SA5D-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29022 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

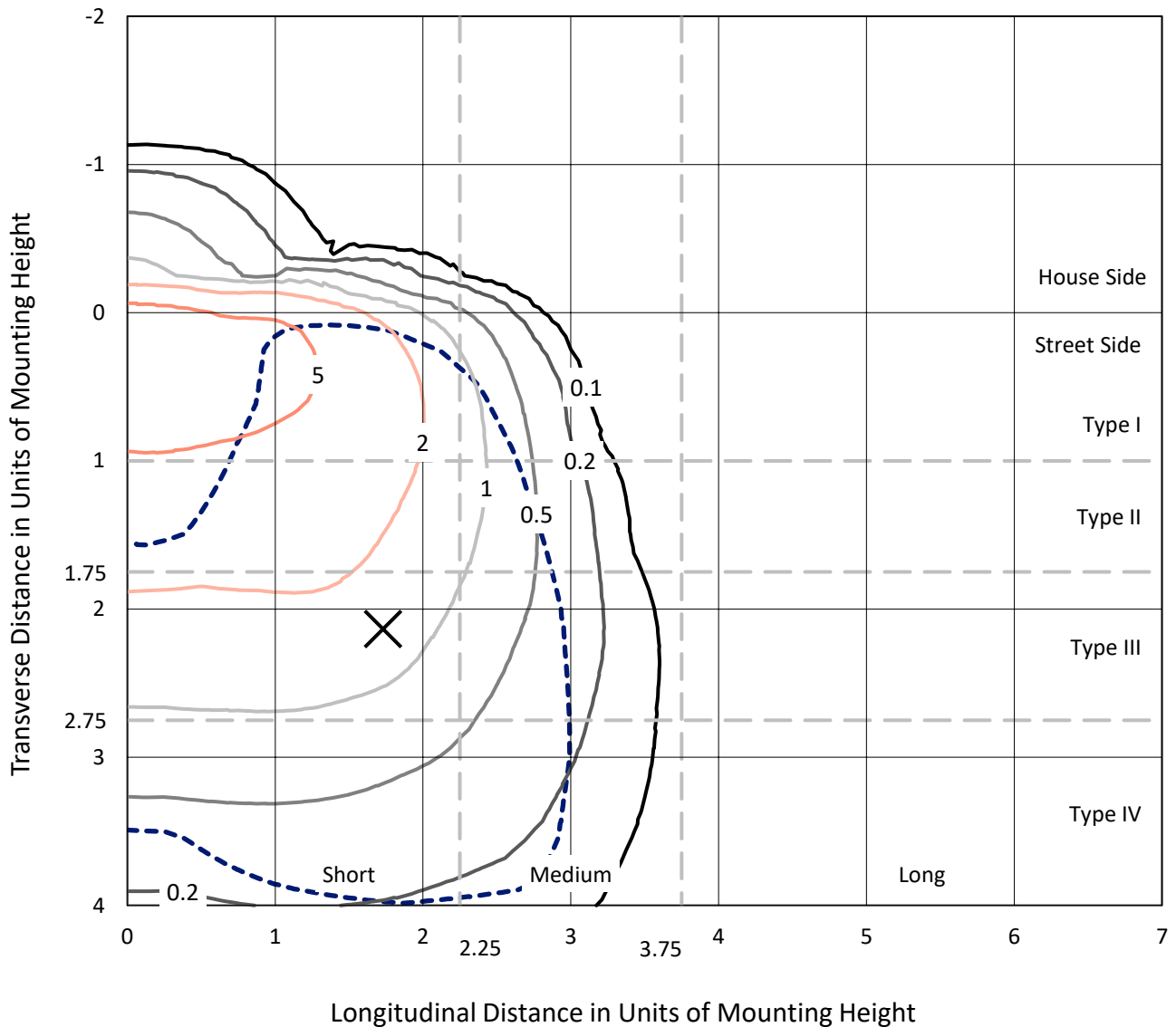
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

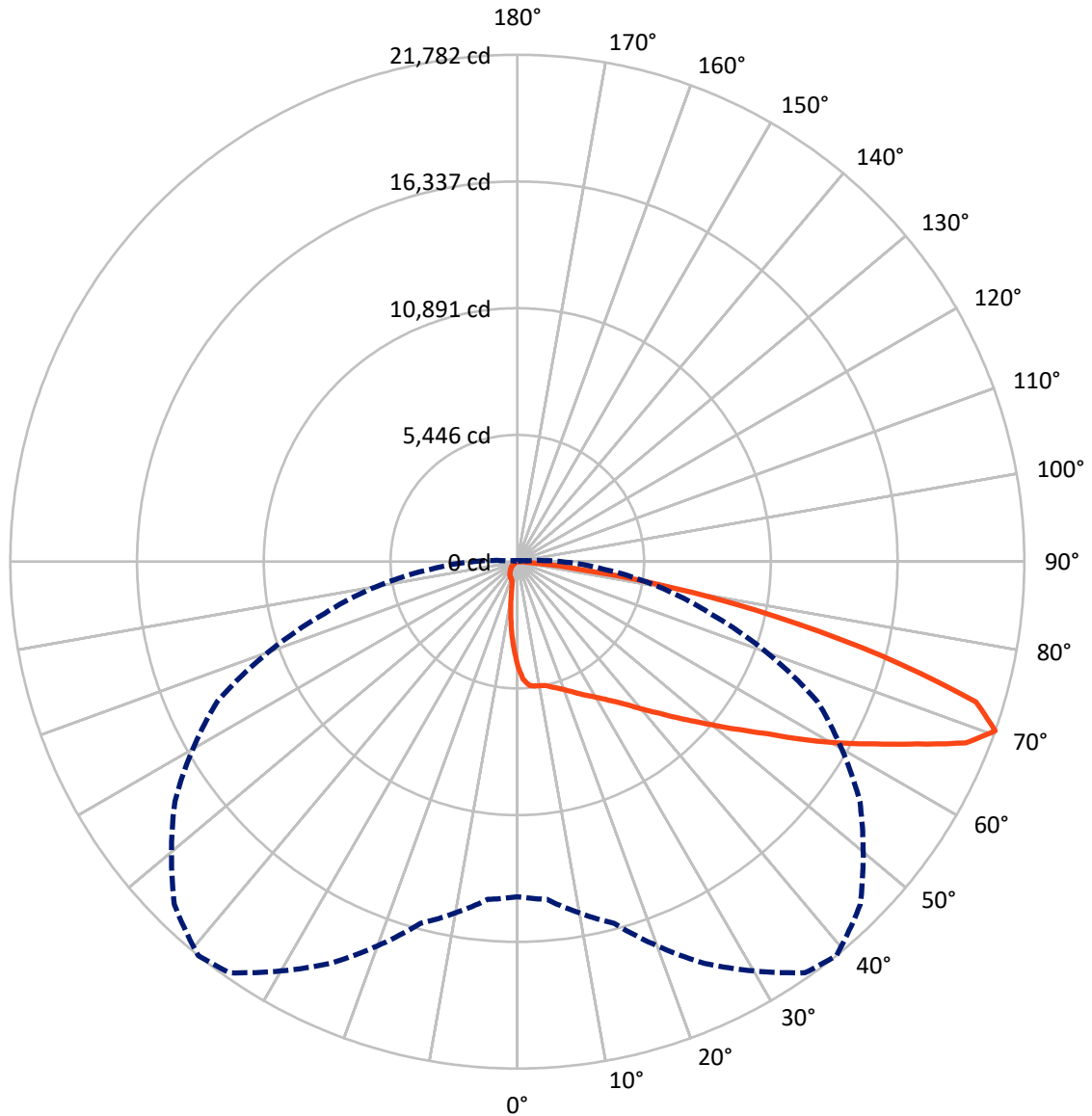
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.4	0.0	1892.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	27129.6	0.0	27129.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	29022.0	0.0	29022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.3
10°-20°	1003.7	3.5
20°-30°	1681.5	5.8
30°-40°	2607.9	9.0
40°-50°	4132.7	14.2
50°-60°	6057.9	20.9
60°-70°	7764.7	26.8
70°-80°	4879.1	16.8
80°-90°	508.3	1.8
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°	29022.0	100.0
0°-180°	29022.0	100.0

Coefficient of Utilization



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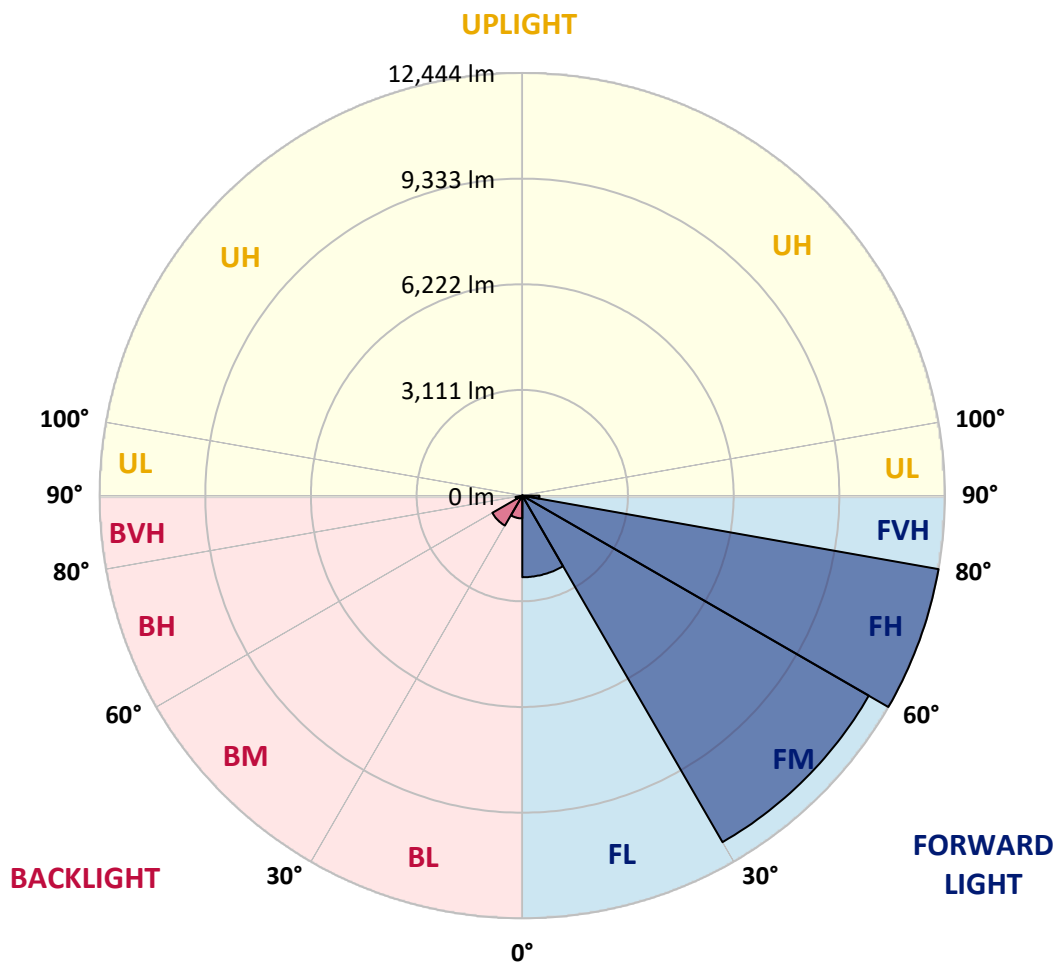
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2401.4	8.3			
FM	(30°-60°)	11780.0	40.6			
FH	(60°-80°)	12443.7	42.9			G5
FVH	(80°-90°)	504.5	1.7			G4/750
BL	(0°-30°)	670.1	2.3	B2/1000		
BM	(30°-60°)	1018.4	3.5	B2/2500		
BH	(60°-80°)	200.2	0.7	B1/500		G1/500
BVH	(80°-90°)	3.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4
2.5°	5232.5	5214.9	5191.5	5164.2	5086.2	5072.5	5025.7	4926.3	4807.3	4709.8	4575.2
5°	5480.1	5489.9	5472.3	5423.6	5367.0	5333.9	5275.4	5121.3	4967.2	4770.3	4549.9
7.5°	5536.7	5556.2	5534.7	5487.9	5433.3	5398.2	5351.4	5218.8	5039.4	4815.1	4512.8
10°	5530.8	5554.2	5540.6	5497.7	5452.8	5419.7	5369.0	5263.7	5119.3	4883.4	4524.5
12.5°	5521.1	5552.3	5550.3	5528.9	5491.8	5466.5	5435.3	5341.7	5207.1	4982.8	4588.9
15°	5493.8	5532.8	5567.9	5585.5	5587.4	5587.4	5548.4	5448.9	5320.2	5113.5	4672.7
17.5°	5505.5	5550.3	5638.1	5688.8	5723.9	5720.0	5679.1	5571.8	5429.4	5248.1	4760.5
20°	5577.6	5638.1	5761.0	5862.4	5897.5	5885.8	5831.2	5706.4	5544.5	5363.1	4846.3
22.5°	5755.1	5809.7	5963.8	6082.8	6108.1	6076.9	5998.9	5829.2	5683.0	5487.9	4949.7
25°	6020.4	6084.7	6227.1	6316.8	6316.8	6299.2	6190.0	5991.1	5839.0	5661.5	5084.2
27.5°	6342.1	6396.7	6537.2	6617.1	6570.3	6519.6	6410.4	6170.5	6024.3	5879.9	5246.1
30°	6667.8	6702.9	6851.1	6886.3	6837.5	6773.1	6656.1	6416.2	6287.5	6176.4	5480.1
32.5°	6976.0	7052.0	7174.9	7167.1	7100.8	7069.6	6962.3	6706.8	6634.7	6623.0	5807.8
35°	7284.1	7342.6	7451.8	7479.1	7420.6	7414.8	7336.8	7147.6	7149.5	7225.6	6318.7
37.5°	7549.3	7602.0	7730.7	7791.2	7802.9	7832.1	7800.9	7676.1	7853.6	8062.2	6995.5
40°	7771.7	7845.8	8009.6	8114.9	8235.8	8343.1	8348.9	8376.2	8733.1	9092.0	7878.9
42.5°	7945.2	8048.6	8286.5	8481.5	8758.5	8895.0	9004.2	9154.4	9755.0	10291.3	8920.3
45°	8171.5	8290.4	8586.9	8893.0	9326.0	9550.3	9702.4	10104.1	10956.4	11687.7	9989.1
47.5°	8545.9	8608.3	8910.6	9357.2	9926.7	10246.5	10542.9	11151.4	12245.5	12900.8	10878.4
50°	9027.6	9068.6	9296.7	9916.9	10654.1	11075.3	11615.6	12331.3	13583.3	13907.1	11381.5
52.5°	9560.0	9573.7	9745.3	10533.2	11469.3	11999.7	12604.3	13487.8	14673.5	14624.8	11715.0
55°	10178.2	10158.7	10305.0	11202.1	12434.6	13041.2	13745.2	14671.6	15619.4	15133.8	11906.1
57.5°	10886.2	10833.5	10975.9	12089.5	13671.1	14396.6	15112.3	15693.5	16352.7	15560.9	11997.8
60°	11627.3	11521.9	11691.6	13086.0	15127.9	15816.3	16411.2	16567.2	17124.9	15900.2	11839.8
62.5°	12218.2	12220.1	12536.1	14146.9	16625.7	17228.3	17544.2	17684.7	17790.0	15826.1	11009.0
65°	13140.6	13171.8	13676.9	15619.4	18359.4	18882.1	19098.6	18642.2	17819.2	14905.6	9760.9
67.5°	14092.3	14191.8	15116.2	17647.6	20362.3	20783.6	20504.7	18827.5	17023.5	12805.2	7401.1
70°	14402.4	14566.2	16089.4	19044.0	21563.7	21782.1	20838.2	17963.5	14230.8	8561.5	3724.9
72.5°	13197.2	13462.4	15529.7	18535.0	20797.2	20608.1	18644.2	15065.5	9047.1	3251.0	1137.0
75°	9306.5	9423.5	12906.6	15375.6	16727.1	16190.8	14182.1	9712.1	3721.0	912.7	390.0
77.5°	4805.4	4748.8	7676.1	10201.6	11929.5	11373.7	9287.0	5027.7	1410.0	380.3	241.8
80°	2484.6	2525.5	3321.2	5345.6	7282.1	6701.0	4951.6	2330.5	750.8	210.6	185.3
82.5°	1392.5	1306.7	1909.3	2334.4	3405.1	2669.9	1899.5	1649.9	327.6	126.8	175.5
85°	253.5	265.2	1047.3	1261.8	1181.8	750.8	612.4	1101.9	95.6	70.2	122.9
87.5°	3.9	3.9	202.8	362.7	230.1	105.3	193.1	158.0	19.5	27.3	21.5
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°	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4	4528.4
2.5°	4507.0	4432.9	4294.4	4157.9	3984.3	3841.9	3746.4	3646.9	3545.5	3553.3	3576.7
5°	4429.0	4300.3	4027.2	3738.6	3461.7	3212.0	2966.3	2745.9	2656.2	2574.3	2578.2
7.5°	4351.0	4169.6	3769.8	3317.3	2898.0	2472.9	2164.8	1911.2	1776.7	1675.2	1646.0
10°	4315.9	4076.0	3533.8	2911.7	2316.9	1852.7	1456.8	1250.1	1090.2	1039.5	1053.1
12.5°	4331.5	4029.2	3321.2	2545.0	1837.1	1291.1	1014.1	908.8	873.7	867.9	864.0
15°	4360.7	3996.0	3112.6	2139.4	1349.6	959.5	852.2	832.7	828.8	824.9	826.9
17.5°	4399.7	3966.8	2890.2	1759.1	1035.6	838.6	807.4	797.6	795.7	795.7	795.7
20°	4438.7	3933.6	2642.6	1419.8	864.0	791.8	772.3	766.4	764.5	764.5	762.5
22.5°	4483.6	3904.4	2391.0	1115.5	795.7	758.6	741.1	737.2	735.2	733.3	733.3
25°	4547.9	3867.3	2123.8	912.7	752.8	727.4	709.9	706.0	704.0	696.2	698.2
27.5°	4633.7	3840.0	1848.8	787.9	713.8	688.4	676.7	670.9	667.0	661.1	663.1
30°	4750.8	3816.6	1556.3	719.6	668.9	647.5	635.8	631.9	628.0	622.1	622.1
32.5°	4953.6	3826.3	1248.1	665.0	628.0	602.6	590.9	587.0	583.1	577.3	577.3
35°	5257.8	3882.9	998.5	618.2	579.2	553.9	542.2	542.2	536.3	528.5	526.6
37.5°	5755.1	4027.2	801.5	573.4	532.4	509.0	495.4	491.5	485.6	473.9	472.0
40°	6342.1	4251.5	674.8	528.5	489.5	466.1	454.4	442.7	427.1	415.4	413.4
42.5°	7079.3	4481.6	585.1	483.7	448.6	427.1	413.4	393.9	370.5	354.9	353.0
45°	7847.7	4692.2	524.6	442.7	409.5	392.0	376.4	345.2	315.9	296.4	294.5
47.5°	8421.1	4731.3	475.9	403.7	376.4	358.8	337.4	298.4	259.4	241.8	236.0
50°	8692.2	4542.1	425.1	364.7	343.2	323.7	296.4	251.6	208.7	187.2	183.3
52.5°	8787.7	4214.4	384.2	329.6	310.1	286.7	253.5	202.8	163.8	142.4	140.4
55°	8748.7	3801.0	347.1	296.4	271.1	243.8	210.6	161.9	120.9	103.4	99.5
57.5°	8543.9	3274.4	310.1	263.3	232.1	204.8	167.7	120.9	81.9	66.3	64.4
60°	7992.0	2556.7	273.0	226.2	197.0	167.7	132.6	85.8	50.7	37.1	37.1
62.5°	7059.8	1897.6	237.9	189.2	165.8	134.6	93.6	54.6	27.3	19.5	17.6
65°	5899.4	1400.3	198.9	159.9	138.5	105.3	66.3	33.2	13.7	5.9	3.9
67.5°	4116.9	864.0	165.8	130.7	113.1	76.1	41.0	13.7	5.9	0.0	0.0
70°	1870.3	411.5	126.8	99.5	85.8	54.6	21.5	7.8	3.9	0.0	0.0
72.5°	581.2	216.5	89.7	72.2	58.5	35.1	11.7	5.9	3.9	0.0	0.0
75°	269.1	138.5	56.6	39.0	33.2	17.6	7.8	3.9	2.0	0.0	0.0
77.5°	200.9	107.3	33.2	21.5	17.6	11.7	5.9	3.9	2.0	0.0	0.0
80°	175.5	54.6	19.5	13.7	9.8	7.8	3.9	2.0	0.0	0.0	0.0
82.5°	158.0	27.3	11.7	7.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0
85°	85.8	15.6	7.8	5.9	3.9	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	15.6	7.8	5.9	3.9	3.9	2.0	2.0	2.0	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)