

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: P454316

Luminaire Tested: **GALN-SA5B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18731 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 204
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

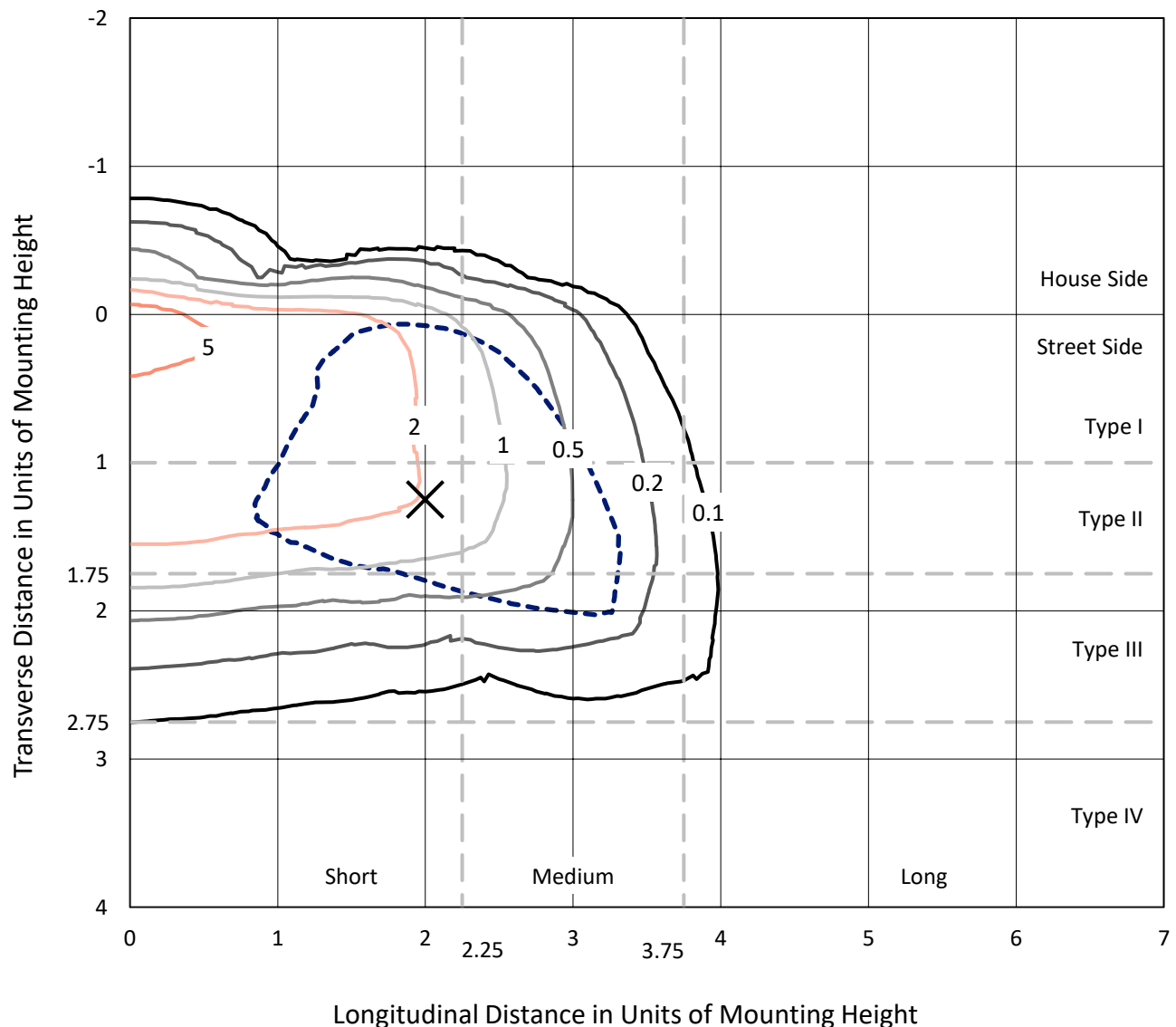


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

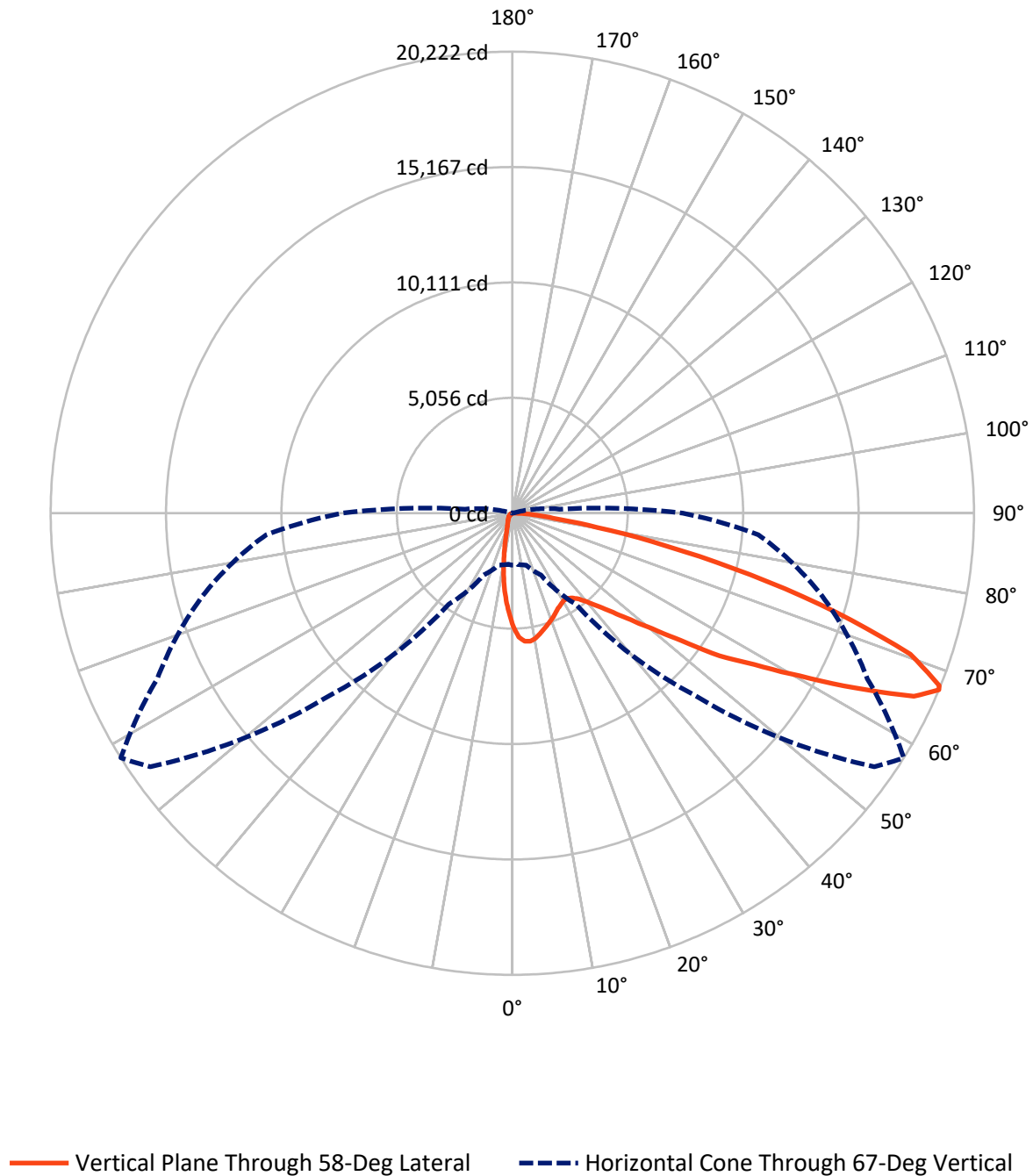


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1351.7	0.0	1351.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17379.3	0.0	17379.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	18731.0	0.0	18731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	2.2
10°-20°	870.2	4.6
20°-30°	1179.2	6.3
30°-40°	1635.5	8.7
40°-50°	2608.5	13.9
50°-60°	4509.0	24.1
60°-70°	5150.6	27.5
70°-80°	2147.3	11.5
80°-90°	227.7	1.2
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°	18731.0	100.0
0°-180°	18731.0	100.0

Coefficient of Utilization



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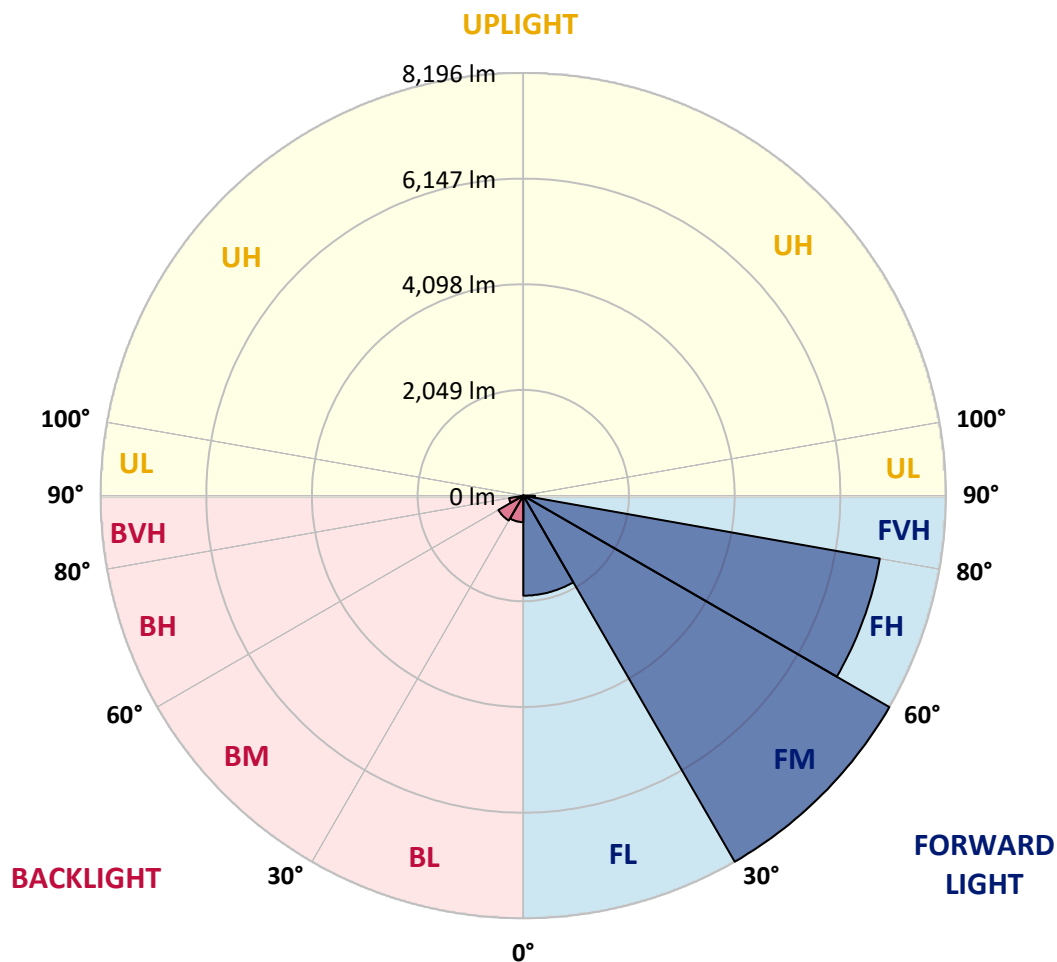
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1939.1	10.4			
FM	(30°-60°)	8195.6	43.8			
FH	(60°-80°)	7018.5	37.5			G3/7500
FVH	(80°-90°)	226.0	1.2			G3/500
BL	(0°-30°)	513.3	2.7	B2/1000		
BM	(30°-60°)	557.4	3.0	B1/1000		
BH	(60°-80°)	279.4	1.5	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4
2.5°	5762.7	5771.5	5739.0	5712.7	5645.1	5572.5	5476.1	5424.8	5337.2	5185.7	5018.0
5°	5897.9	5909.2	5904.2	5897.9	5871.6	5801.5	5678.9	5633.8	5504.9	5258.3	4955.4
7.5°	5597.5	5638.8	5643.8	5692.6	5739.0	5745.2	5698.9	5665.1	5546.2	5257.1	4844.0
10°	5199.5	5227.0	5267.1	5323.4	5434.8	5527.4	5572.5	5567.5	5498.6	5218.3	4713.8
12.5°	4797.7	4812.7	4874.0	4970.4	5106.9	5264.6	5384.7	5408.5	5409.8	5171.9	4604.9
15°	4452.2	4446.0	4493.5	4604.9	4796.4	4994.2	5209.5	5247.0	5307.1	5126.9	4503.5
17.5°	4156.8	4189.4	4196.9	4319.5	4496.0	4752.6	5026.7	5093.1	5213.2	5088.1	4419.7
20°	3974.1	3991.6	4007.9	4076.7	4235.7	4506.0	4855.3	4946.6	5125.6	5053.0	4325.8
22.5°	3920.3	3931.5	3917.8	3939.0	4051.7	4292.0	4668.8	4790.2	5041.8	5020.5	4249.5
25°	3961.6	3972.8	3940.3	3915.3	3954.1	4118.0	4488.5	4636.2	4974.2	5014.2	4191.9
27.5°	4061.7	4083.0	4037.9	3992.9	3970.3	4024.2	4347.1	4518.6	4927.9	5044.3	4165.6
30°	4218.2	4230.7	4196.9	4141.8	4090.5	4036.7	4273.2	4437.2	4915.3	5114.4	4163.1
32.5°	4388.4	4414.7	4395.9	4359.6	4293.3	4165.6	4294.5	4439.7	4945.4	5215.8	4194.4
35°	4598.7	4628.7	4646.2	4638.7	4553.6	4394.6	4429.7	4552.4	5025.5	5402.3	4279.5
37.5°	4805.2	4831.5	4930.4	4964.2	4889.1	4738.9	4692.5	4773.9	5202.0	5646.3	4433.5
40°	5041.8	5076.8	5215.8	5344.7	5308.4	5150.7	5065.6	5133.1	5472.3	6014.3	4725.1
42.5°	5268.3	5330.9	5542.4	5770.2	5804.0	5627.6	5571.2	5593.8	5872.9	6543.8	5131.9
45°	5590.0	5648.8	5921.7	6230.9	6389.8	6252.1	6194.6	6190.8	6422.4	7288.5	5791.5
47.5°	6054.4	6106.9	6428.6	6734.0	7016.9	7035.7	6926.8	6964.3	7113.3	8159.7	6600.1
50°	6623.9	6747.8	6959.3	7277.3	7655.3	7960.7	7994.5	7944.4	8072.1	9168.6	7571.4
52.5°	7451.3	7498.8	7692.8	7954.4	8397.5	8915.7	9317.5	9248.7	9208.6	10129.8	8552.7
55°	8068.3	8132.2	8433.8	8793.1	9442.7	10126.1	10997.3	11021.0	10515.4	11053.6	9512.8
57.5°	7881.8	7979.5	8436.3	9158.5	10586.7	11835.9	12484.3	12500.5	11724.5	11951.0	10596.7
60°	6924.3	6970.6	7625.2	8589.0	10684.3	13688.4	14593.3	14461.9	12954.9	12954.9	11554.3
62.5°	4910.3	4982.9	5513.7	6931.8	9649.2	14331.7	17119.2	16847.6	14649.7	13914.9	12125.0
65°	3138.0	3067.9	3419.6	4375.9	7188.4	13381.7	19318.4	19334.7	16244.3	14299.2	11813.4
67°	2273.1	2245.5	2346.9	2991.5	4874.0	11248.9	19364.7	20222.1	17160.5	14056.4	10817.0
67.5°	2079.0	2100.3	2174.2	2698.6	4428.4	10236.2	19154.5	20169.6	17367.1	13909.9	10456.5
70°	1575.9	1539.6	1619.7	1908.8	2654.8	6457.4	16477.1	18498.6	17110.5	12456.7	8355.0
72.5°	1159.1	1155.3	1266.7	1560.8	2044.0	3439.6	12369.1	14832.4	13978.8	9485.2	5260.8
75°	782.3	817.3	995.1	1304.3	1852.5	2230.5	8432.6	10760.7	9704.3	5386.0	2150.4
77.5°	445.6	448.1	640.9	1047.7	1663.5	1794.9	4996.7	6855.5	5136.9	1791.2	638.4
80°	192.8	211.5	317.9	761.0	1379.4	1589.6	2865.1	3767.6	2077.8	379.3	206.5
82.5°	71.3	83.9	140.2	468.1	1006.4	1309.3	1731.1	1798.7	704.7	133.9	128.9
85°	0.0	2.5	51.3	219.0	524.5	584.5	1156.6	1066.4	311.7	63.8	83.9
87.5°	0.0	0.0	0.0	22.5	68.8	217.8	359.2	400.5	75.1	22.5	20.0
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°	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4	4965.4
2.5°	4927.9	4846.5	4642.5	4438.5	4287.0	4160.6	3970.3	3866.4	3811.4	3730.0	3735.0
5°	4803.9	4638.7	4279.5	3907.7	3607.3	3314.4	2964.0	2822.5	2703.6	2636.0	2591.0
7.5°	4620.0	4375.9	3843.9	3348.2	2886.4	2374.4	1990.2	1733.6	1560.8	1497.0	1435.7
10°	4418.4	4094.2	3402.1	2714.9	2074.0	1545.8	1220.4	985.1	901.2	823.6	831.1
12.5°	4231.9	3837.7	2996.5	2142.9	1453.2	982.6	766.0	669.6	642.1	633.4	633.4
15°	4079.2	3592.3	2560.9	1610.9	996.3	705.9	613.3	587.0	577.0	574.5	574.5
17.5°	3916.5	3359.5	2167.9	1190.3	724.7	590.8	559.5	542.0	538.2	535.7	535.7
20°	3771.3	3125.4	1794.9	886.2	585.8	532.0	511.9	500.7	496.9	494.4	495.7
22.5°	3633.6	2917.7	1444.4	669.6	515.7	484.4	464.4	453.1	445.6	439.3	440.6
25°	3511.0	2717.4	1161.6	548.2	464.4	436.8	416.8	400.5	384.3	376.8	375.5
27.5°	3424.6	2542.2	905.0	469.4	418.1	388.0	363.0	343.0	321.7	310.4	307.9
30°	3353.3	2364.4	716.0	414.3	371.7	343.0	311.7	282.9	260.3	249.1	244.1
32.5°	3306.9	2195.4	564.5	369.2	332.9	297.9	262.9	234.1	209.0	197.8	195.3
35°	3299.4	2054.0	461.9	331.7	297.9	260.3	224.1	192.8	171.5	160.2	157.7
37.5°	3353.3	1945.1	386.8	301.7	269.1	227.8	187.8	159.0	140.2	131.4	130.2
40°	3497.2	1876.3	335.5	276.6	242.8	197.8	160.2	135.2	116.4	107.6	107.6
42.5°	3771.3	1878.8	301.7	252.8	216.5	169.0	136.4	112.7	96.4	88.9	86.4
45°	4199.4	1963.9	272.9	229.1	191.5	146.4	116.4	92.6	76.4	70.1	70.1
47.5°	4772.7	2132.9	247.8	205.3	169.0	125.2	98.9	75.1	61.3	55.1	55.1
50°	5522.4	2404.5	226.6	185.2	150.2	107.6	80.1	61.3	47.6	42.6	41.3
52.5°	6306.0	2739.9	201.5	167.7	128.9	91.4	65.1	47.6	36.3	32.5	31.3
55°	7170.9	3067.9	177.7	150.2	105.1	76.4	51.3	37.6	26.3	22.5	22.5
57.5°	8043.3	3389.6	148.9	125.2	82.6	56.3	40.1	27.5	17.5	13.8	13.8
60°	8781.8	3493.4	126.4	101.4	62.6	40.1	28.8	17.5	10.0	6.3	6.3
62.5°	8883.2	3143.0	106.4	77.6	45.1	27.5	15.0	10.0	3.8	2.5	2.5
65°	8332.4	2553.4	88.9	58.8	30.0	13.8	6.3	3.8	1.3	0.0	0.0
67°	7466.3	2070.3	72.6	43.8	21.3	8.8	3.8	1.3	0.0	0.0	0.0
67.5°	7244.7	1973.9	70.1	41.3	18.8	7.5	2.5	1.3	0.0	0.0	0.0
70°	5685.1	1478.2	50.1	25.0	11.3	5.0	0.0	0.0	0.0	0.0	0.0
72.5°	3533.5	836.1	36.3	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1335.5	292.9	25.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	415.6	111.4	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.2	42.6	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.4	17.5	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.8	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	2.5	1.3	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)