

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: P648430

Luminaire Tested: **GALN-SA5B-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648430  
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-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 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: 18456.9 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

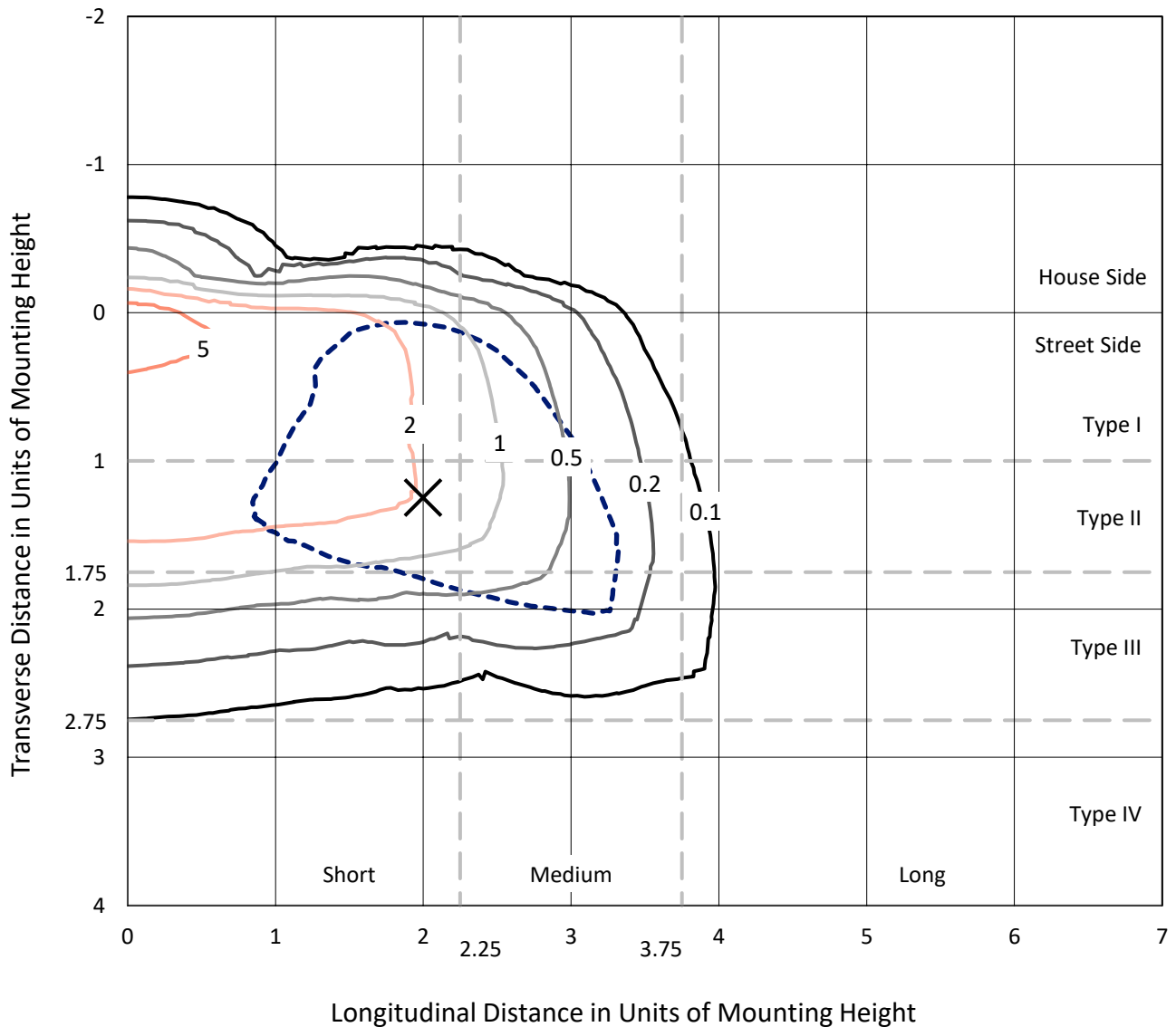
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

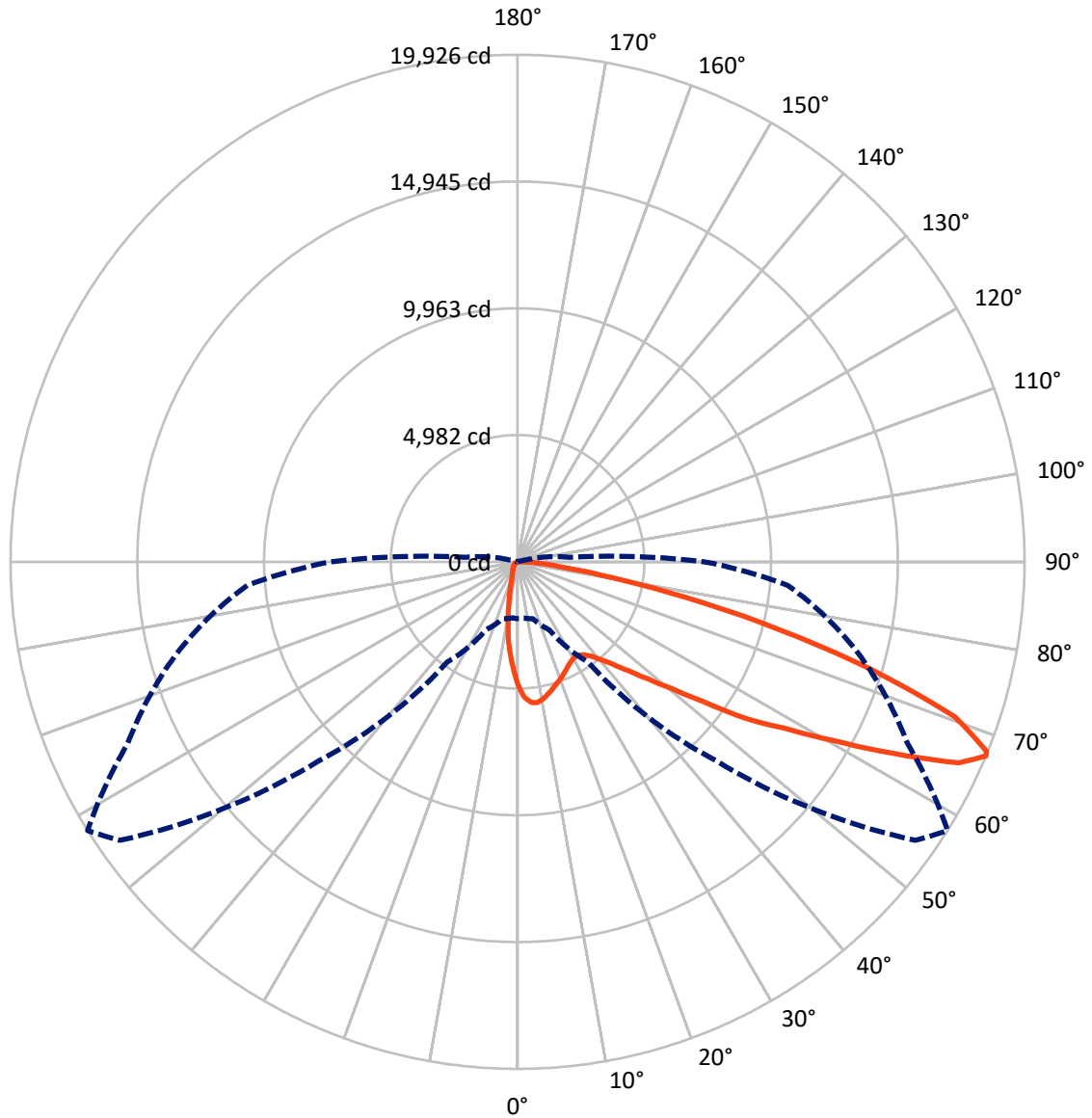
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1332.0	0.0	1332.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17124.9	0.0	17124.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18456.9	0.0	18456.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.0	2.2
10°-20°	857.5	4.6
20°-30°	1162.0	6.3
30°-40°	1611.6	8.7
40°-50°	2570.3	13.9
50°-60°	4443.0	24.1
60°-70°	5075.3	27.5
70°-80°	2115.9	11.5
80°-90°	224.4	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°	18456.9	100.0
0°-180°	18456.9	100.0

**Coefficient of Utilization**

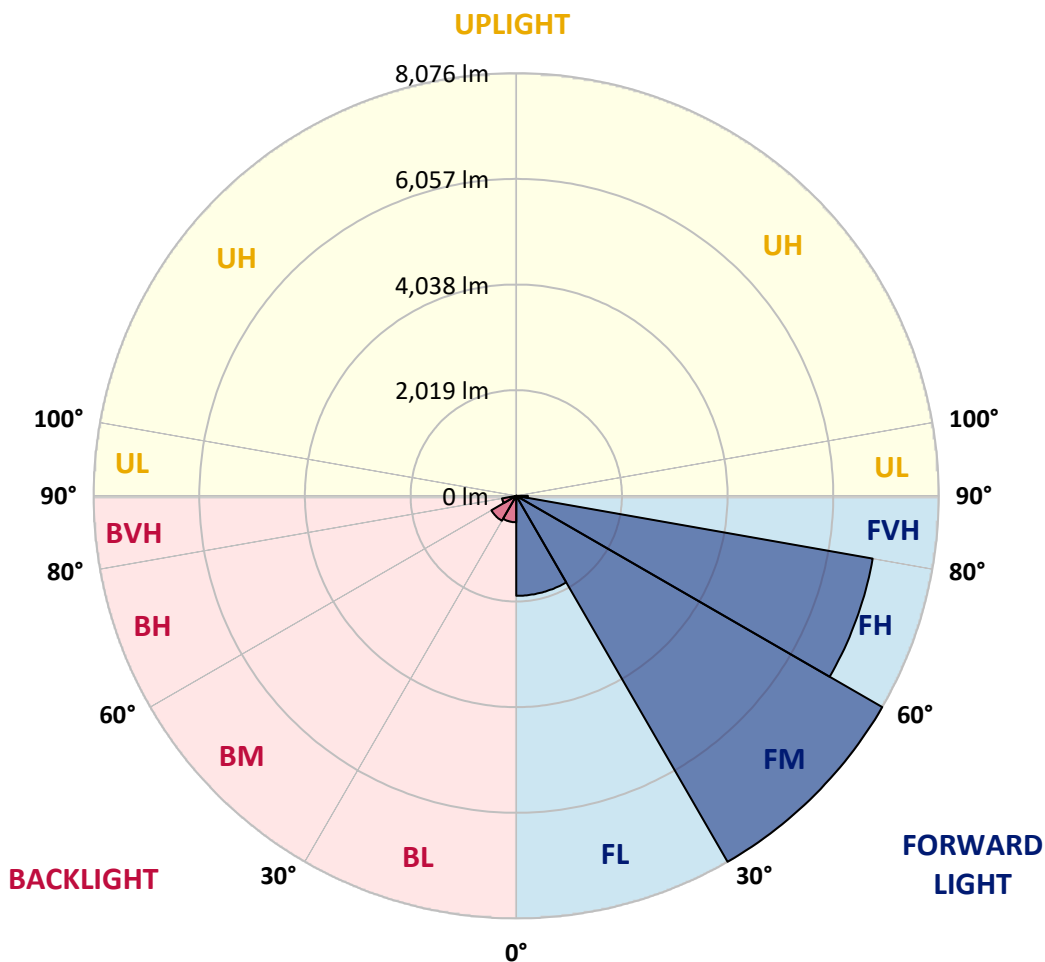


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.7	10.4			
FM (30°-60°)	8075.7	43.8			
FH (60°-80°)	6915.8	37.5			G3/7500
FVH (80°-90°)	222.7	1.2			G2/225
BL (0°-30°)	505.8	2.7	B2/1000		
BM (30°-60°)	549.2	3.0	B1/1000		
BH (60°-80°)	275.4	1.5	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7
2.5°	5678.4	5687.0	5655.0	5629.1	5562.4	5490.9	5396.0	5345.4	5259.0	5109.9	4944.6
5°	5811.6	5822.7	5817.8	5811.6	5785.7	5716.6	5595.8	5551.4	5424.3	5181.3	4882.9
7.5°	5515.6	5556.3	5561.3	5609.3	5655.0	5661.2	5615.5	5582.2	5465.0	5180.1	4773.1
10°	5123.4	5150.5	5190.0	5245.5	5355.3	5446.5	5490.9	5486.0	5418.1	5141.9	4644.8
12.5°	4727.4	4742.2	4802.7	4897.7	5032.1	5187.5	5305.9	5329.3	5330.6	5096.2	4537.6
15°	4387.1	4380.9	4427.8	4537.6	4726.3	4921.1	5133.3	5170.2	5229.4	5051.8	4437.7
17.5°	4096.0	4128.1	4135.5	4256.3	4430.2	4683.0	4953.2	5018.6	5136.9	5013.6	4355.0
20°	3915.9	3933.2	3949.2	4017.0	4173.7	4440.1	4784.2	4874.3	5050.6	4979.1	4262.5
22.5°	3862.9	3874.0	3860.4	3881.4	3992.4	4229.2	4600.4	4720.1	4968.0	4947.0	4187.2
25°	3903.6	3914.7	3882.7	3857.9	3896.2	4057.7	4422.9	4568.3	4901.3	4940.9	4130.6
27.5°	4002.2	4023.2	3978.8	3934.4	3912.3	3965.3	4283.5	4452.5	4855.8	4970.5	4104.6
30°	4156.4	4168.8	4135.5	4081.2	4030.6	3977.6	4210.7	4372.3	4843.4	5039.5	4102.1
32.5°	4324.2	4350.0	4331.6	4295.8	4230.5	4104.6	4231.6	4374.7	4873.0	5139.5	4133.0
35°	4531.4	4561.0	4578.3	4570.8	4487.0	4330.3	4364.8	4485.7	4951.9	5323.2	4216.8
37.5°	4734.9	4760.8	4858.2	4891.5	4817.5	4669.5	4623.8	4704.0	5125.8	5563.7	4368.6
40°	4968.0	5002.5	5139.5	5266.5	5230.7	5075.2	4991.4	5058.0	5392.3	5926.3	4656.0
42.5°	5191.2	5252.9	5461.3	5685.8	5719.1	5545.2	5489.7	5511.9	5786.9	6448.0	5056.8
45°	5508.2	5566.2	5835.1	6139.7	6296.3	6160.6	6103.9	6100.2	6328.4	7181.8	5706.7
47.5°	5965.8	6017.6	6334.5	6635.5	6914.2	6932.8	6825.4	6862.4	7009.2	8040.3	6503.5
50°	6526.9	6649.1	6857.5	7170.8	7543.3	7844.2	7877.4	7828.1	7953.9	9034.4	7460.6
52.5°	7342.2	7389.1	7580.2	7838.0	8274.7	8785.3	9181.1	9113.3	9073.9	9981.6	8427.6
55°	7950.3	8013.1	8310.4	8664.4	9304.5	9977.9	10836.3	10859.7	10361.4	10891.8	9373.5
57.5°	7766.5	7862.7	8312.9	9024.5	10431.8	11662.7	12301.6	12317.6	11552.9	11776.2	10441.6
60°	6823.0	6868.6	7513.7	8463.4	10528.0	13488.0	14379.8	14250.3	12765.3	12765.3	11385.1
62.5°	4838.5	4910.0	5432.9	6830.3	9508.0	14122.0	16868.7	16601.1	14435.3	13711.3	11947.6
65°	3092.1	3023.0	3369.6	4311.8	7083.2	13185.9	19035.7	19051.7	16006.6	14089.9	11640.5
67°	2239.8	2212.7	2312.6	2947.8	4802.7	11084.2	19081.3	19926.2	16909.4	13850.6	10658.7
67.5°	2048.6	2069.5	2142.4	2659.1	4363.7	10086.4	18874.1	19874.4	17112.9	13706.3	10303.5
70°	1552.8	1517.1	1596.0	1880.8	2615.9	6362.9	16236.0	18227.8	16860.0	12274.4	8232.7
72.5°	1142.1	1138.4	1248.2	1538.0	2014.1	3389.3	12188.1	14615.3	13774.2	9346.4	5183.9
75°	770.9	805.4	980.6	1285.1	1825.4	2197.9	8309.2	10603.2	9562.2	5307.2	2119.0
77.5°	439.1	441.5	631.5	1032.3	1639.1	1768.6	4923.6	6755.1	5061.7	1765.0	629.0
80°	190.0	208.4	313.3	749.9	1359.1	1566.4	2823.2	3712.4	2047.4	373.7	203.5
82.5°	70.3	82.6	138.1	461.3	991.6	1290.1	1705.8	1772.3	694.4	131.9	127.0
85°	0.0	2.5	50.6	215.9	516.8	576.0	1139.7	1050.8	307.1	62.9	82.6
87.5°	0.0	0.0	0.0	22.2	67.8	214.6	354.0	394.7	74.0	22.2	19.7
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°	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7
2.5°	4855.8	4775.6	4574.5	4373.5	4224.3	4099.7	3912.3	3809.8	3755.6	3675.4	3680.3
5°	4733.6	4570.8	4216.8	3850.6	3554.6	3266.0	2920.6	2781.2	2664.1	2597.4	2553.0
7.5°	4552.4	4311.8	3787.7	3299.2	2844.2	2339.7	1961.0	1708.2	1538.0	1475.1	1414.6
10°	4353.8	4034.3	3352.3	2675.2	2043.7	1523.2	1202.5	970.7	888.0	811.6	818.9
12.5°	4170.0	3781.5	2952.7	2111.5	1432.0	968.2	754.8	659.8	632.7	624.1	624.1
15°	4019.5	3539.8	2523.5	1587.4	981.7	695.6	604.3	578.5	568.6	566.1	566.1
17.5°	3859.2	3310.4	2136.2	1172.9	714.1	582.2	551.3	534.1	530.3	527.9	527.9
20°	3716.1	3079.7	1768.6	873.2	577.2	524.1	504.4	493.4	489.6	487.2	488.4
22.5°	3580.4	2874.9	1423.3	659.8	508.2	477.3	457.6	446.5	439.1	432.9	434.2
25°	3459.6	2677.6	1144.6	540.2	457.6	430.4	410.7	394.7	378.7	371.2	370.0
27.5°	3374.5	2505.0	891.8	462.5	411.9	382.3	357.7	337.9	317.0	305.8	303.4
30°	3304.2	2329.8	705.5	408.3	366.3	337.9	307.1	278.7	256.5	245.5	240.5
32.5°	3258.5	2163.4	556.2	363.9	328.1	293.5	259.0	230.7	206.0	194.9	192.4
35°	3251.2	2024.0	455.1	326.8	293.5	256.5	220.8	190.0	169.0	157.9	155.4
37.5°	3304.2	1916.6	381.1	297.2	265.2	224.5	185.0	156.6	138.1	129.5	128.3
40°	3446.0	1848.8	330.5	272.6	239.3	194.9	157.9	133.2	114.7	106.1	106.1
42.5°	3716.1	1851.2	297.2	249.2	213.4	166.5	134.4	111.0	95.0	87.5	85.1
45°	4137.9	1935.2	268.9	225.7	188.7	144.3	114.7	91.3	75.2	69.1	69.1
47.5°	4702.8	2101.7	244.2	202.2	166.5	123.3	97.4	74.0	60.4	54.3	54.3
50°	5441.6	2369.3	223.2	182.5	148.0	106.1	78.9	60.4	46.9	42.0	40.7
52.5°	6213.7	2699.9	198.6	165.3	127.0	90.0	64.1	46.9	35.8	32.1	30.9
55°	7065.9	3023.0	175.2	148.0	103.6	75.2	50.6	37.0	25.9	22.2	22.2
57.5°	7925.6	3340.0	146.7	123.3	81.4	55.5	39.5	27.2	17.3	13.5	13.5
60°	8653.2	3442.3	124.6	99.9	61.7	39.5	28.3	17.3	9.9	6.2	6.2
62.5°	8753.2	3097.0	104.8	76.5	44.4	27.2	14.8	9.9	3.7	2.5	2.5
65°	8210.5	2516.1	87.5	57.9	29.6	13.5	6.2	3.7	1.3	0.0	0.0
67°	7357.0	2039.9	71.6	43.1	21.0	8.6	3.7	1.3	0.0	0.0	0.0
67.5°	7138.7	1945.1	69.1	40.7	18.5	7.4	2.5	1.3	0.0	0.0	0.0
70°	5601.9	1456.6	49.3	24.7	11.1	4.9	0.0	0.0	0.0	0.0	0.0
72.5°	3481.8	823.9	35.8	14.8	7.4	2.5	0.0	0.0	0.0	0.0	0.0
75°	1316.0	288.6	24.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	409.5	109.8	14.8	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.1	42.0	9.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	85.1	17.3	6.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.0	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	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)