

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: P648542

Luminaire Tested: **GALN-SA7B-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648542  
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-SA7B-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA 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: 25526.6 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

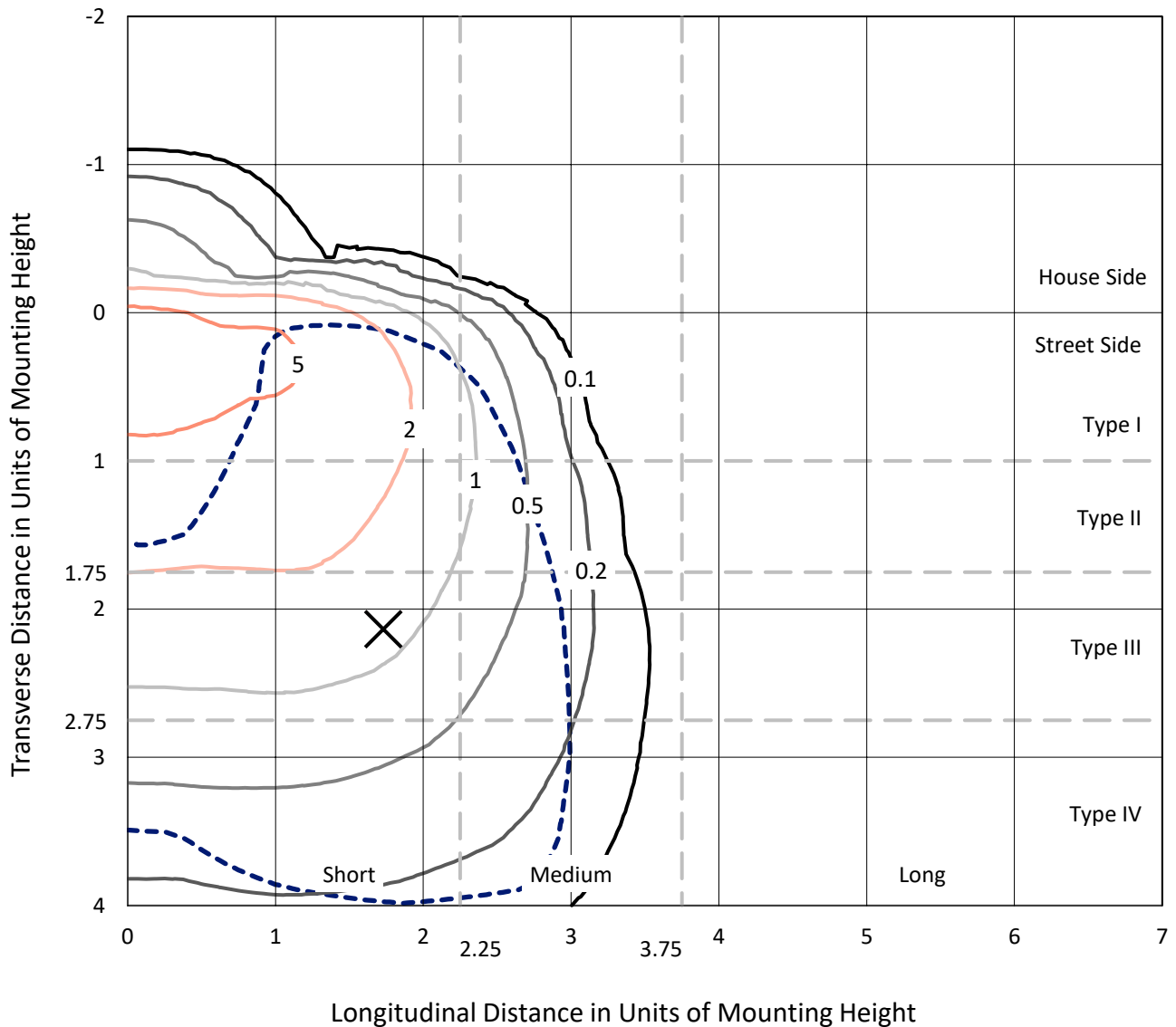
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

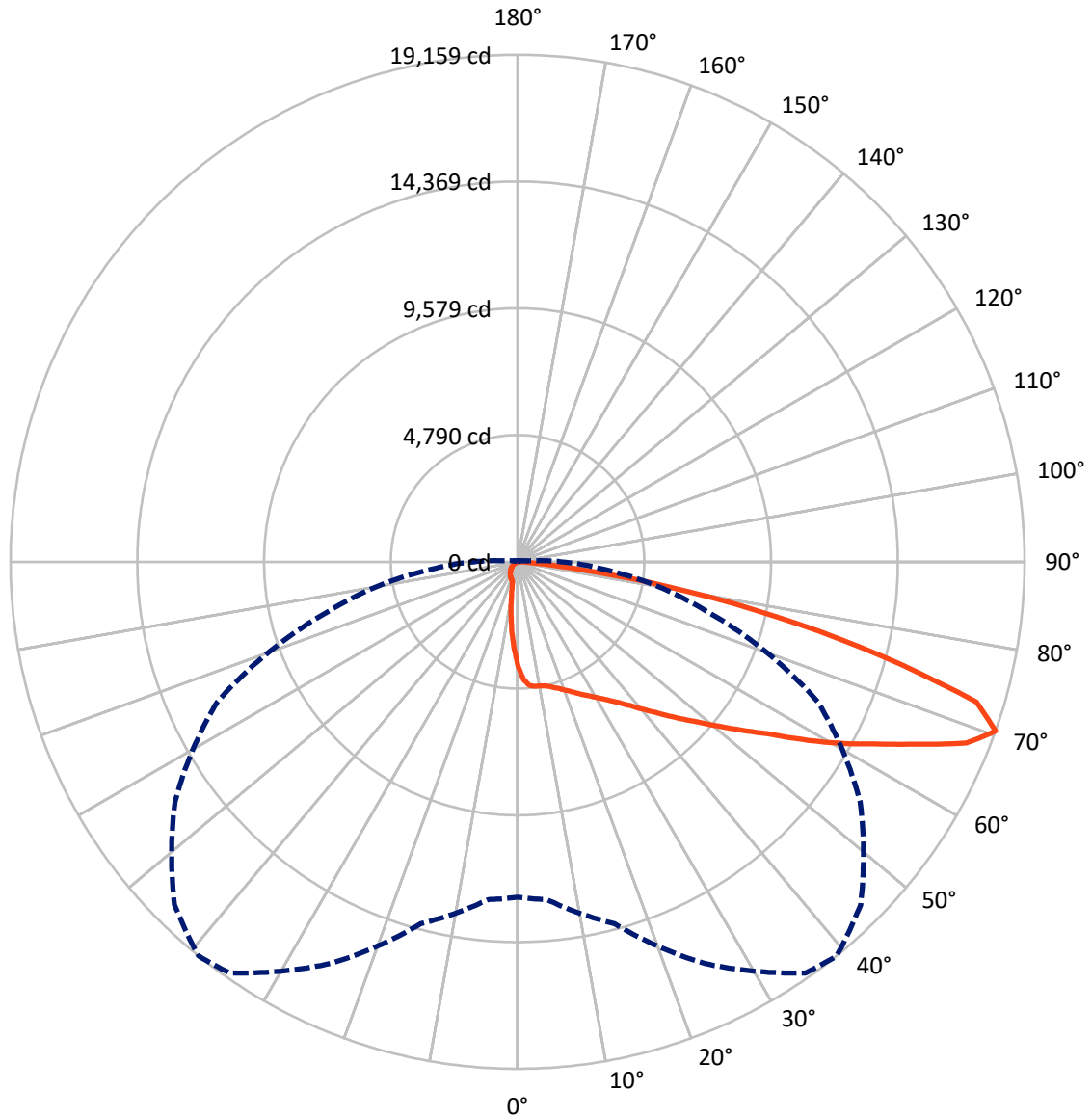
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	1664.4	0.0	1664.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	23862.1	0.0	23862.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	25526.6	0.0	25526.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.7	1.3
10°-20°	882.8	3.5
20°-30°	1479.0	5.8
30°-40°	2293.8	9.0
40°-50°	3634.9	14.2
50°-60°	5328.3	20.9
60°-70°	6829.5	26.8
70°-80°	4291.5	16.8
80°-90°	447.1	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°	25526.6	100.0
0°-180°	25526.6	100.0

**Coefficient of Utilization**

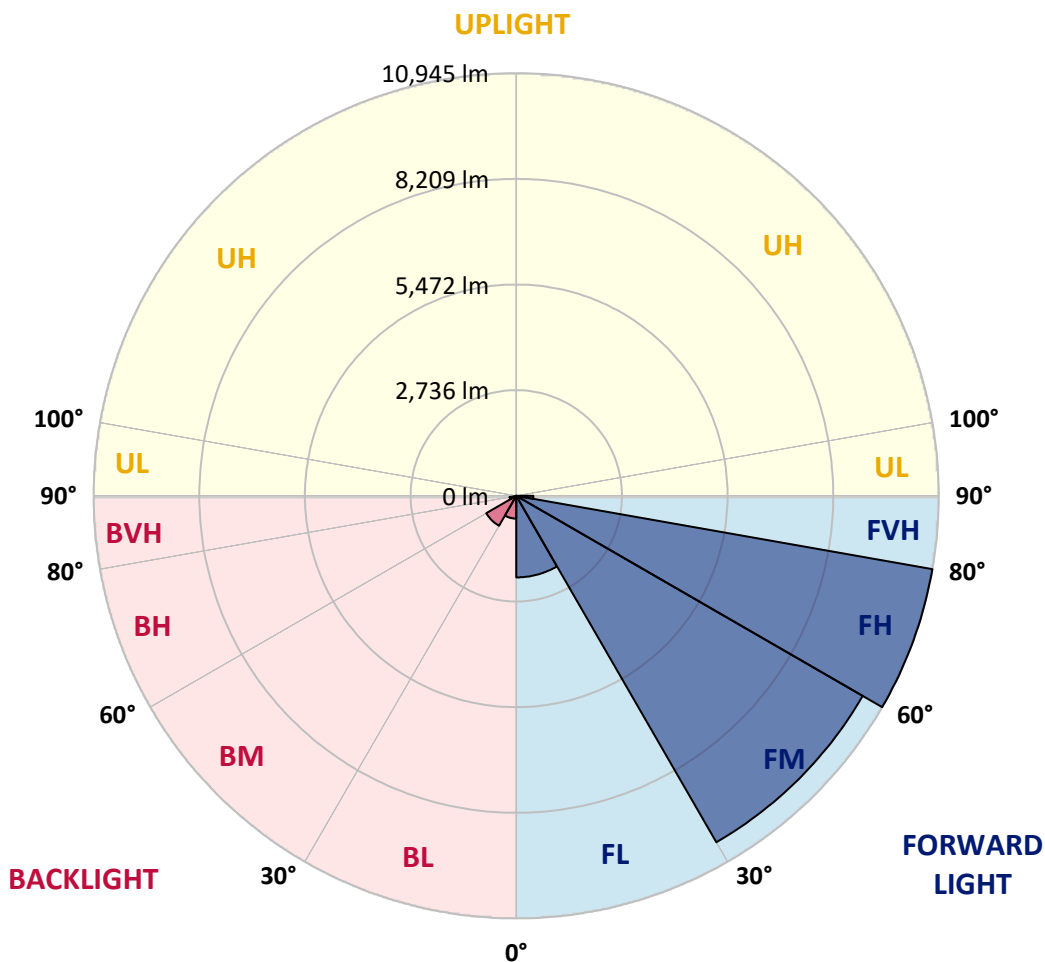


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.2	8.3			
FM (30°-60°)	10361.2	40.6			
FH (60°-80°)	10945.0	42.9			G4/12000
FVH (80°-90°)	443.8	1.7			G3/500
BL (0°-30°)	589.4	2.3	B2/1000		
BM (30°-60°)	895.8	3.5	B1/1000		
BH (60°-80°)	176.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	4602.2	4586.8	4566.2	4542.3	4473.6	4461.6	4420.4	4333.0	4228.3	4142.5	4024.2
5°	4820.1	4828.7	4813.3	4770.3	4720.6	4691.4	4640.0	4504.5	4369.0	4195.7	4001.9
7.5°	4869.9	4887.0	4868.1	4827.0	4779.0	4748.0	4706.9	4590.3	4432.4	4235.2	3969.3
10°	4864.7	4885.3	4873.3	4835.6	4796.1	4766.9	4722.4	4629.7	4502.8	4295.2	3979.6
12.5°	4856.2	4883.6	4881.8	4863.0	4830.4	4808.1	4780.7	4698.3	4579.9	4382.7	4036.2
15°	4832.1	4866.4	4897.3	4912.7	4914.4	4914.4	4880.1	4792.7	4679.4	4497.6	4110.0
17.5°	4842.4	4881.8	4959.1	5003.7	5034.5	5031.1	4995.1	4900.7	4775.5	4616.0	4187.2
20°	4905.9	4959.1	5067.1	5156.3	5187.2	5176.9	5128.9	5019.1	4876.7	4717.2	4262.7
22.5°	5061.9	5110.0	5245.6	5350.2	5372.5	5345.0	5276.4	5127.2	4998.5	4827.0	4353.6
25°	5295.3	5351.9	5477.1	5556.0	5556.0	5540.6	5444.5	5269.5	5135.7	4979.6	4471.9
27.5°	5578.3	5626.3	5749.8	5820.1	5779.0	5734.4	5638.3	5427.4	5298.7	5171.7	4614.3
30°	5864.7	5895.6	6026.0	6056.9	6014.0	5957.4	5854.5	5643.5	5530.3	5432.5	4820.1
32.5°	6135.7	6202.7	6310.7	6303.9	6245.5	6218.1	6123.8	5899.0	5835.6	5825.3	5108.3
35°	6406.8	6458.3	6554.3	6578.3	6526.9	6521.8	6453.1	6286.7	6288.4	6355.4	5557.7
37.5°	6640.1	6686.4	6799.7	6852.8	6863.1	6888.8	6861.4	6751.6	6907.7	7091.2	6152.9
40°	6835.7	6900.8	7044.9	7137.5	7243.9	7338.2	7343.4	7367.4	7681.3	7996.9	6929.9
42.5°	6988.3	7079.2	7288.5	7460.0	7703.6	7823.7	7919.7	8051.8	8580.1	9051.9	7846.0
45°	7187.3	7291.9	7552.7	7821.9	8202.8	8400.0	8533.8	8887.2	9636.8	10280.0	8786.0
47.5°	7516.6	7571.5	7837.4	8230.2	8731.1	9012.4	9273.1	9808.3	10770.6	11347.0	9568.2
50°	7940.3	7976.3	8177.0	8722.5	9370.9	9741.5	10216.6	10846.1	11947.3	12232.1	10010.7
52.5°	8408.6	8420.6	8571.6	9264.5	10087.9	10554.5	11086.3	11863.3	12906.2	12863.4	10304.0
55°	8952.4	8935.2	9063.9	9853.0	10937.0	11470.5	12089.8	12904.5	13738.2	13311.1	10472.2
57.5°	9575.1	9528.7	9653.9	10633.4	12024.5	12662.7	13292.2	13803.4	14383.2	13686.7	10552.8
60°	10226.8	10134.2	10283.5	11509.9	13305.9	13911.4	14434.6	14571.8	15062.4	13985.2	10413.8
62.5°	10746.6	10748.3	11026.2	12443.1	14623.3	15153.3	15431.2	15554.7	15647.3	13920.0	9683.1
65°	11557.9	11585.4	12029.7	13738.2	16148.2	16607.9	16798.3	16397.0	15673.1	13110.3	8585.3
67.5°	12395.0	12482.5	13295.6	15522.1	17909.9	18280.4	18035.1	16559.9	14973.2	11262.9	6509.7
70°	12667.8	12811.9	14151.6	16750.3	18966.5	19158.7	18328.4	15800.0	12516.9	7530.3	3276.3
72.5°	11607.7	11841.0	13659.3	16302.6	18292.4	18126.0	16398.7	13251.0	7957.5	2859.4	1000.0
75°	8185.6	8288.5	11352.1	13523.7	14712.5	14240.7	12474.0	8542.4	3272.9	802.8	343.0
77.5°	4226.6	4176.8	6751.6	8972.9	10492.7	10003.8	8168.5	4422.1	1240.2	334.5	212.7
80°	2185.4	2221.4	2921.2	4701.8	6405.1	5893.9	4355.3	2049.8	660.4	185.3	162.9
82.5°	1224.8	1149.3	1679.3	2053.3	2995.0	2348.3	1670.8	1451.2	288.1	111.5	154.4
85°	223.0	233.3	921.1	1109.8	1039.5	660.4	538.6	969.2	84.0	61.8	108.1
87.5°	3.4	3.4	178.4	319.1	202.4	92.6	169.8	138.9	17.1	24.0	18.9
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°	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0	3983.0
2.5°	3964.2	3898.9	3777.2	3657.1	3504.5	3379.2	3295.2	3207.7	3118.5	3125.3	3145.9
5°	3895.5	3782.4	3542.2	3288.3	3044.7	2825.1	2609.0	2415.2	2336.3	2264.3	2267.6
7.5°	3826.9	3667.4	3315.8	2917.8	2549.0	2175.0	1904.0	1681.0	1562.7	1473.4	1447.8
10°	3796.1	3585.0	3108.2	2561.0	2037.8	1629.6	1281.4	1099.6	958.9	914.3	926.3
12.5°	3809.8	3543.9	2921.2	2238.5	1615.9	1135.6	892.0	799.4	768.4	763.3	759.9
15°	3835.5	3514.7	2737.7	1881.7	1187.0	843.9	749.6	732.4	729.1	725.6	727.3
17.5°	3869.8	3489.0	2542.2	1547.2	910.9	737.6	710.2	701.6	699.8	699.8	699.8
20°	3904.1	3459.8	2324.3	1248.8	759.9	696.4	679.3	674.2	672.4	672.4	670.7
22.5°	3943.6	3434.1	2103.0	981.2	699.8	667.3	651.8	648.4	646.7	645.0	645.0
25°	4000.2	3401.5	1868.0	802.8	662.1	639.8	624.4	620.9	619.3	612.4	614.1
27.5°	4075.7	3377.5	1626.1	693.0	627.8	605.5	595.2	590.1	586.6	581.5	583.2
30°	4178.6	3357.0	1368.8	633.0	588.3	569.5	559.2	555.8	552.3	547.2	547.2
32.5°	4357.0	3365.5	1097.8	584.9	552.3	530.0	519.8	516.3	512.9	507.8	507.8
35°	4624.6	3415.2	878.3	543.8	509.4	487.2	476.8	476.8	471.8	464.9	463.1
37.5°	5061.9	3542.2	705.0	504.3	468.3	447.7	435.7	432.3	427.1	416.8	415.1
40°	5578.3	3739.5	593.5	464.9	430.6	410.0	399.6	389.4	375.7	365.3	363.6
42.5°	6226.7	3941.9	514.6	425.4	394.6	375.7	363.6	346.5	325.9	312.2	310.5
45°	6902.5	4127.1	461.4	389.4	360.3	344.8	331.1	303.6	277.9	260.7	259.0
47.5°	7406.9	4161.4	418.5	355.1	331.1	315.6	296.8	262.5	228.2	212.7	207.6
50°	7645.3	3995.0	374.0	320.8	301.9	284.8	260.7	221.3	183.5	164.7	161.2
52.5°	7729.3	3706.9	337.9	289.9	272.7	252.1	223.0	178.4	144.1	125.2	123.5
55°	7695.0	3343.2	305.3	260.7	238.4	214.4	185.3	142.3	106.3	90.9	87.5
57.5°	7514.9	2880.0	272.7	231.5	204.1	180.1	147.5	106.3	72.0	58.3	56.6
60°	7029.5	2248.8	240.1	199.0	173.3	147.5	116.7	75.5	44.6	32.6	32.6
62.5°	6209.5	1669.0	209.3	166.4	145.8	118.4	82.4	48.0	24.0	17.1	15.4
65°	5188.9	1231.6	175.0	140.6	121.8	92.6	58.3	29.1	12.0	5.2	3.4
67.5°	3621.1	759.9	145.8	114.9	99.5	66.9	36.0	12.0	5.2	0.0	0.0
70°	1645.0	361.9	111.5	87.5	75.5	48.0	18.9	6.9	3.4	0.0	0.0
72.5°	511.1	190.4	78.9	63.5	51.4	30.9	10.3	5.2	3.4	0.0	0.0
75°	236.7	121.8	49.7	34.3	29.1	15.4	6.9	3.4	1.7	0.0	0.0
77.5°	176.6	94.4	29.1	18.9	15.4	10.3	5.2	3.4	1.7	0.0	0.0
80°	154.4	48.0	17.1	12.0	8.6	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	138.9	24.0	10.3	6.9	5.2	3.4	1.7	1.7	0.0	0.0	0.0
85°	75.5	13.7	6.9	5.2	3.4	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.7	6.9	5.2	3.4	3.4	1.7	1.7	1.7	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)