

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: P459186

Luminaire Tested: **GALN-SA6D-735-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34974 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

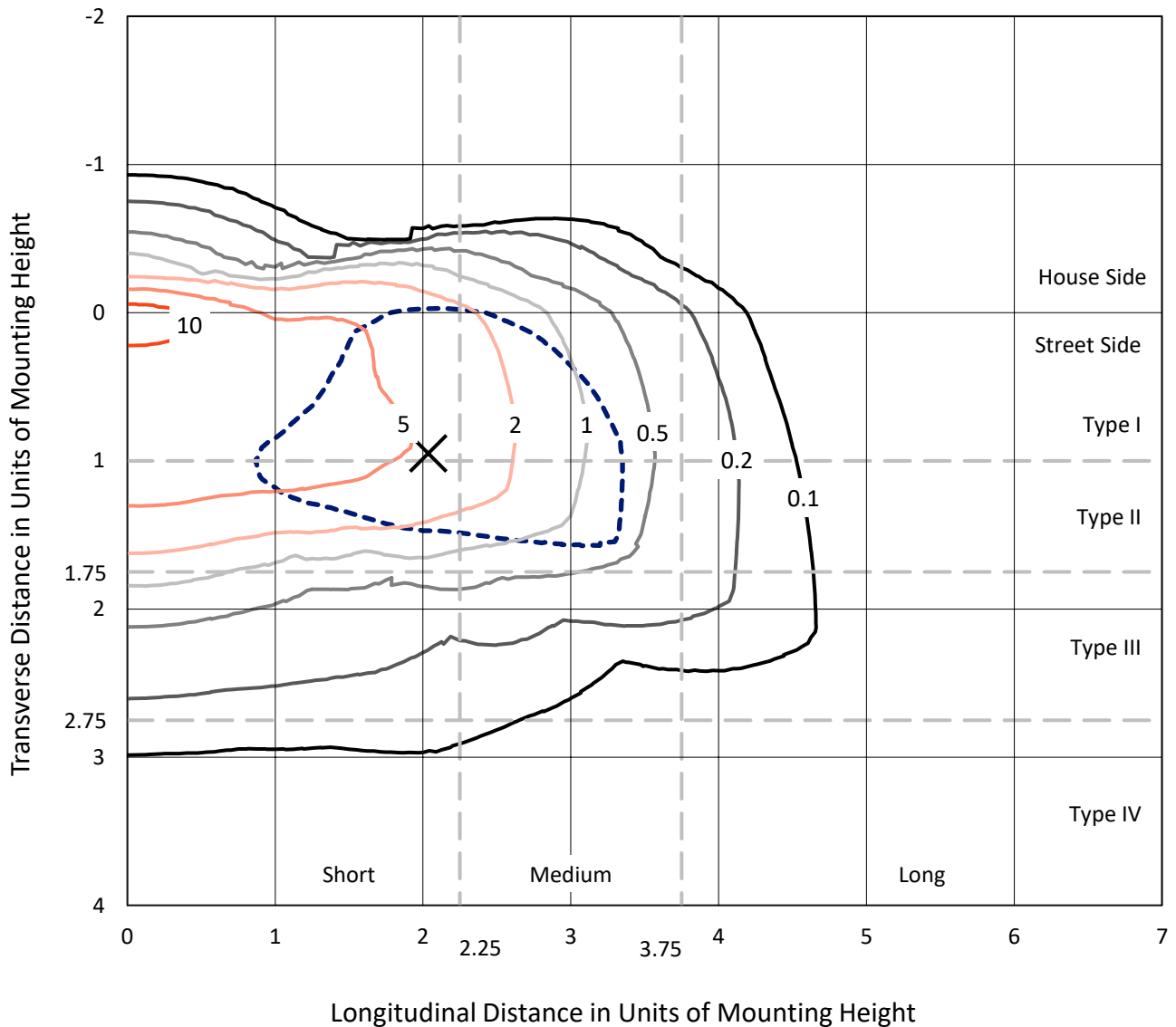
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

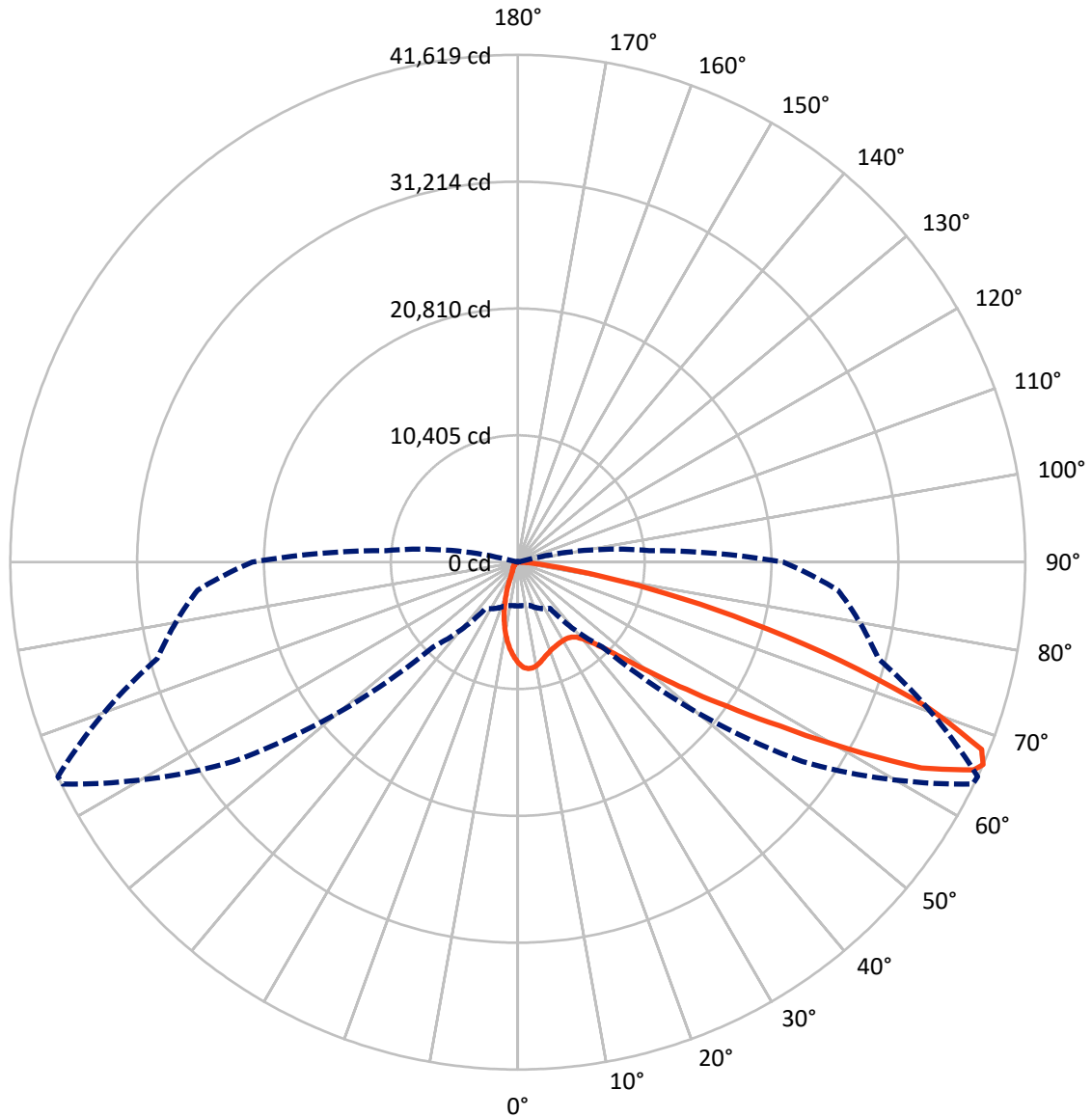
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3616.8	0.0	3616.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	31357.2	0.0	31357.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	34974.0	0.0	34974.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.3	1.9
10°-20°	1477.9	4.2
20°-30°	2117.1	6.1
30°-40°	3092.2	8.8
40°-50°	5185.1	14.8
50°-60°	8653.1	24.7
60°-70°	9184.9	26.3
70°-80°	4159.8	11.9
80°-90°	425.6	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°	34974.0	100.0
0°-180°	34974.0	100.0



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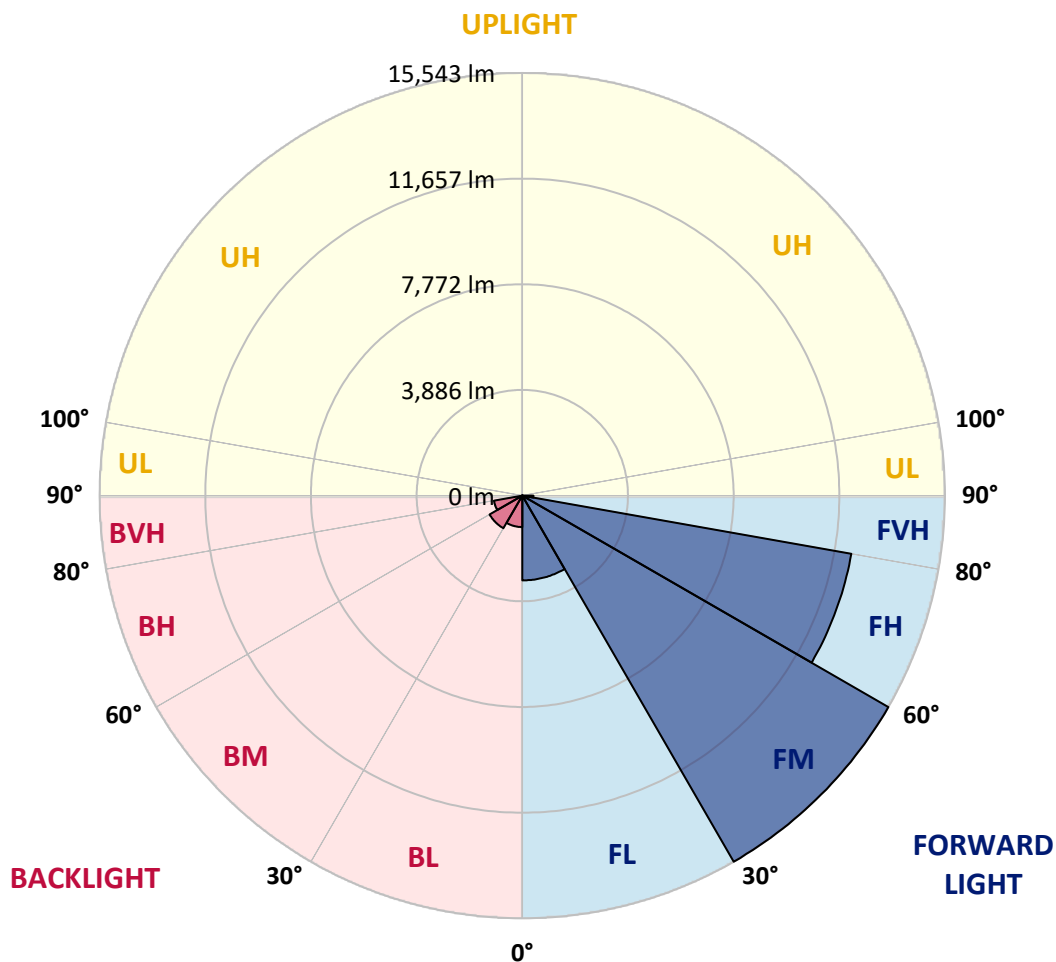
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.3	8.9			
FM (30°-60°)	15543.2	44.4			
FH (60°-80°)	12285.6	35.1			G5
FVH (80°-90°)	412.1	1.2			G3/500
BL (0°-30°)	1157.0	3.3	B3/2500		
BM (30°-60°)	1387.1	4.0	B2/2500		
BH (60°-80°)	1059.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6
2.5°	8740.1	8749.5	8761.3	8777.9	8789.7	8754.3	8704.6	8648.0	8636.1	8515.7	8369.2
5°	8272.4	8286.5	8390.5	8447.2	8574.7	8690.5	8763.7	8773.1	8768.4	8655.0	8421.2
7.5°	7606.2	7646.4	7748.0	7847.2	8085.8	8305.4	8565.3	8747.2	8759.0	8728.3	8437.7
10°	7065.3	7091.3	7143.2	7339.3	7537.7	7873.2	8236.9	8579.4	8607.8	8730.6	8423.5
12.5°	6642.5	6680.3	6744.0	6895.2	7133.8	7450.3	7863.7	8324.3	8383.4	8685.7	8383.4
15°	6347.2	6366.1	6429.9	6578.7	6810.2	7103.1	7521.2	8057.4	8109.4	8626.7	8376.3
17.5°	6207.8	6229.1	6274.0	6392.1	6583.4	6855.1	7263.7	7842.4	7908.6	8588.9	8402.3
20°	6245.6	6264.5	6266.9	6328.3	6458.2	6687.3	7074.7	7641.7	7726.7	8565.3	8444.8
22.5°	6460.6	6462.9	6434.6	6406.2	6451.1	6616.5	6959.0	7514.1	7601.5	8560.6	8494.4
25°	6781.8	6788.9	6741.7	6642.5	6552.7	6637.7	6933.0	7431.4	7509.4	8548.7	8525.1
27.5°	7225.9	7223.6	7209.4	7044.0	6788.9	6732.2	6954.3	7386.5	7452.7	8515.7	8536.9
30°	7847.2	7828.3	7797.6	7611.0	7221.2	6961.4	7044.0	7358.2	7419.6	8468.4	8506.2
32.5°	8459.0	8529.8	8525.1	8348.0	7861.3	7370.0	7230.6	7396.0	7440.9	8437.7	8461.3
35°	9172.4	9170.0	9351.9	9285.7	8716.5	7892.1	7549.5	7521.2	7556.6	8459.0	8440.1
37.5°	9833.8	9895.2	10178.6	10247.2	9727.5	8629.1	8000.7	7790.5	7802.3	8603.1	8492.0
40°	10658.2	10776.3	11199.1	11428.2	10970.0	9722.7	8666.9	8284.2	8286.5	8957.4	8688.1
42.5°	11721.2	11907.8	12302.3	12684.9	12439.3	11017.2	9666.1	9066.1	9061.3	9581.0	9136.9
45°	13013.3	13143.2	13592.0	14199.1	14043.2	12824.3	11121.2	10277.9	10216.4	10603.8	9933.0
47.5°	14128.2	14305.4	14761.3	15453.4	16162.1	15030.6	12859.7	11943.2	11903.0	12231.4	11298.3
50°	14614.8	14770.7	15250.3	16221.1	17938.4	17926.6	15448.7	14373.9	14305.4	14482.5	13410.1
52.5°	14081.0	14227.4	14711.7	15921.1	18774.6	21455.7	19199.8	17423.5	17340.8	17114.0	15932.9
55°	12252.6	12373.1	13088.9	14477.8	18453.4	23808.4	24368.3	21191.1	20869.9	19988.8	18788.8
57.5°	9755.8	9694.4	10138.5	11751.9	16568.4	24597.4	29673.7	25884.8	25310.8	22473.8	21205.3
60°	6760.6	6949.5	7129.1	8192.1	12458.2	23229.7	32973.7	31785.5	31029.6	24918.7	23520.3
62.5°	4970.0	5095.2	5213.3	5704.7	7833.0	18547.9	33557.2	37846.9	37176.0	27514.7	25728.9
65°	3930.7	3940.1	3987.4	4471.6	5161.4	12061.3	30753.3	41265.0	41092.5	30013.9	26624.2
66°	3581.1	3583.4	3656.7	4176.3	4632.2	9822.0	28506.8	41524.8	41619.3	30613.9	26362.0
67.5°	3129.9	3120.4	3226.7	3753.5	4218.9	7081.8	24486.4	40471.3	41031.1	31074.5	25419.5
70°	2426.0	2414.2	2544.1	3148.8	3885.8	4724.4	16275.4	34750.1	35652.4	30132.0	22490.3
72.5°	1615.7	1625.2	1847.2	2485.0	3708.6	4159.8	9791.2	26435.2	27710.8	24883.2	17692.8
75°	942.5	959.0	1211.8	1847.2	3219.7	3966.1	5541.7	18850.2	19665.2	17182.5	11021.9
77.5°	493.7	500.8	677.9	1218.9	2468.5	3682.6	3692.1	12042.4	12425.1	8350.3	4363.0
80°	262.2	255.1	363.8	734.6	1698.4	3233.8	2995.2	6375.5	6628.3	2480.3	1103.1
82.5°	99.2	108.7	193.7	481.9	1003.9	2322.0	2579.5	2818.1	2730.7	545.7	463.0
85°	18.9	23.6	82.7	285.8	505.5	970.9	1901.6	1381.9	1280.3	205.5	266.9
87.5°	2.4	4.7	23.6	68.5	73.2	328.3	562.2	382.7	330.7	75.6	111.0
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°	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6	8293.6
2.5°	8298.3	8234.6	8022.0	7811.7	7596.8	7403.1	7270.8	7055.8	7001.5	6923.6	6878.7
5°	8281.8	8133.0	7724.3	7277.9	6862.1	6413.3	6070.8	5740.1	5562.9	5473.2	5440.1
7.5°	8234.6	7998.4	7360.6	6661.4	5995.2	5324.4	4740.9	4296.8	4011.0	3814.9	3682.6
10°	8140.1	7814.1	6937.7	5976.3	4970.0	4084.2	3344.9	2782.7	2348.0	2211.0	2215.7
12.5°	8043.2	7608.6	6465.3	5215.7	3968.5	2851.2	2066.9	1622.8	1414.9	1346.4	1332.3
15°	7953.5	7412.5	6002.3	4478.7	2955.1	1847.2	1332.3	1176.4	1119.7	1107.9	1105.5
17.5°	7906.2	7230.6	5508.6	3635.4	2062.2	1254.3	1067.7	1025.2	1008.7	996.8	992.1
20°	7866.1	7072.4	5036.2	2846.4	1410.2	1027.5	956.7	916.5	888.2	876.4	869.3
22.5°	7837.7	6909.4	4547.2	2203.9	1079.5	911.8	848.0	796.1	755.9	741.7	732.3
25°	7795.2	6729.9	4053.5	1611.0	909.4	810.2	737.0	675.6	623.6	597.6	592.9
27.5°	7733.8	6526.7	3512.6	1192.9	812.6	720.5	630.7	555.1	503.1	474.8	477.2
30°	7634.6	6314.1	2971.6	947.2	734.6	628.3	531.5	458.3	408.7	387.4	385.0
32.5°	7516.5	6056.6	2475.6	812.6	663.8	545.7	444.1	380.3	342.5	326.0	323.6
35°	7405.4	5796.8	1970.1	729.9	590.5	470.1	373.2	318.9	290.5	276.4	278.7
37.5°	7344.0	5565.3	1535.4	663.8	531.5	403.9	321.3	274.0	248.0	236.2	233.9
40°	7384.2	5376.3	1221.2	604.7	465.4	347.2	276.4	236.2	210.2	193.7	193.7
42.5°	7573.2	5293.7	985.0	548.0	403.9	300.0	240.9	203.1	174.8	158.3	160.6
45°	8149.5	5381.1	824.4	496.1	347.2	259.8	207.9	167.7	141.7	129.9	127.6
47.5°	9106.2	5709.4	713.4	441.7	297.6	222.0	174.8	139.4	113.4	103.9	101.6
50°	10778.6	6387.3	630.7	387.4	252.8	189.0	144.1	111.0	89.8	80.3	80.3
52.5°	13079.4	7866.1	571.6	326.0	212.6	160.6	118.1	89.8	70.9	63.8	61.4
55°	15484.1	9425.1	540.9	274.0	177.2	132.3	94.5	70.9	54.3	47.2	44.9
57.5°	17796.7	10648.7	505.5	222.0	141.7	101.6	73.2	54.3	37.8	33.1	30.7
60°	20014.8	11638.5	429.9	177.2	111.0	73.2	54.3	37.8	26.0	21.3	21.3
62.5°	21999.0	12214.8	337.8	141.7	85.0	52.0	35.4	28.3	18.9	14.2	14.2
65°	22230.5	11466.0	255.1	108.7	61.4	33.1	21.3	21.3	14.2	9.4	9.4
66°	21765.2	10830.6	224.4	99.2	54.3	28.3	18.9	16.5	11.8	7.1	7.1
67.5°	20725.8	9746.4	193.7	85.0	44.9	21.3	14.2	14.2	9.4	4.7	4.7
70°	17907.7	7960.6	153.5	63.8	33.1	16.5	9.4	9.4	7.1	4.7	4.7
72.5°	13648.7	5943.3	125.2	47.2	23.6	11.8	7.1	7.1	7.1	4.7	4.7
75°	8232.2	3200.8	96.8	35.4	21.3	9.4	4.7	7.1	9.4	7.1	4.7
77.5°	3033.0	1089.0	75.6	28.3	16.5	9.4	4.7	4.7	9.4	7.1	7.1
80°	744.1	283.5	54.3	23.6	16.5	9.4	4.7	4.7	9.4	9.4	9.4
82.5°	344.9	120.5	37.8	21.3	16.5	9.4	4.7	4.7	7.1	9.4	9.4
85°	198.4	56.7	30.7	23.6	16.5	9.4	4.7	4.7	7.1	9.4	9.4
87.5°	80.3	28.3	28.3	23.6	18.9	11.8	4.7	4.7	4.7	7.1	7.1
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)