

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: P943996

Luminaire Tested: **GALN-SB8D-727-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

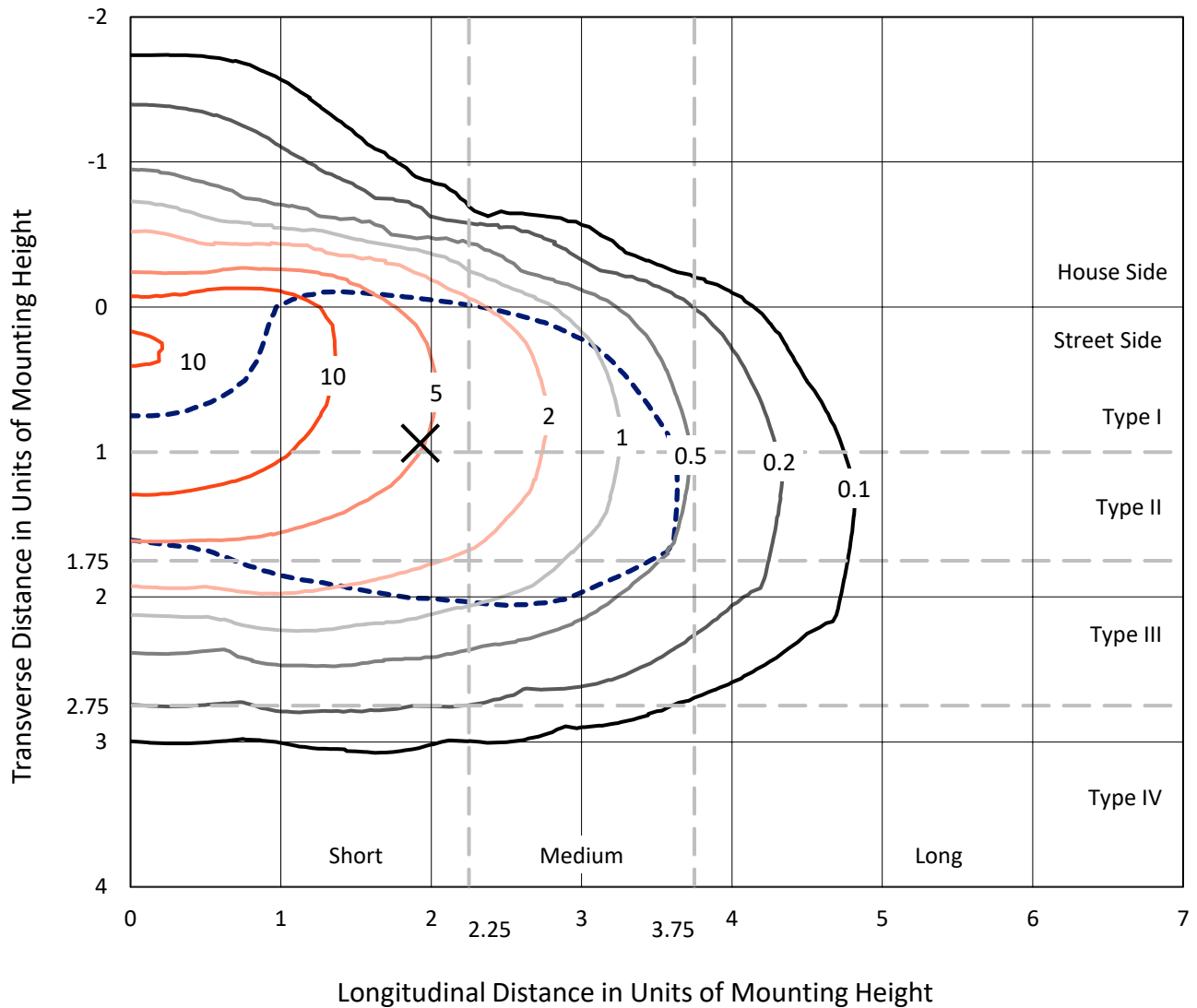
Lumens per Lamp: N/A  
Luminaire Lumens: 59858 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

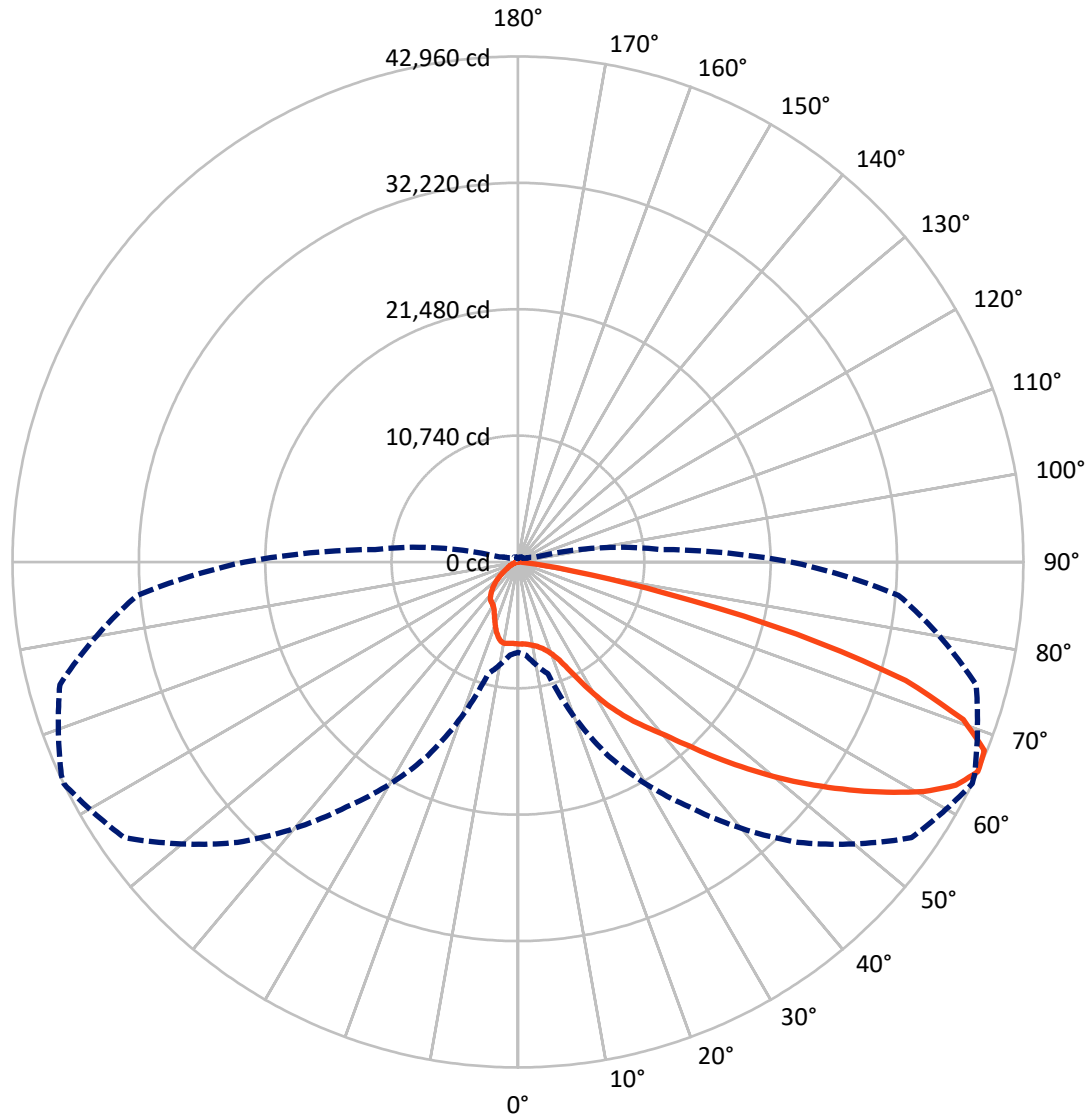
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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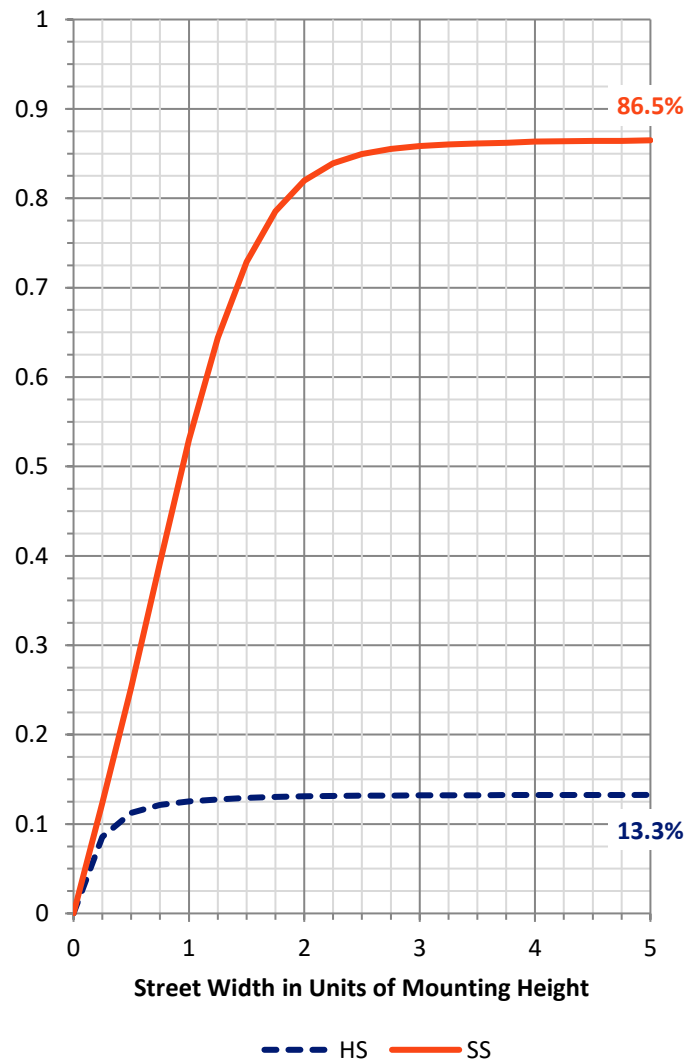
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8004.8	0.0	8004.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	51853.2	0.0	51853.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	59858.0	0.0	59858.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	642.3	1.1
10°-20°	1742.2	2.9
20°-30°	3301.2	5.5
30°-40°	6680.2	11.2
40°-50°	11379.8	19.0
50°-60°	15475.6	25.9
60°-70°	14532.4	24.3
70°-80°	5822.3	9.7
80°-90°	282.1	0.5
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°	59858.0	100.0
0°-180°	59858.0	100.0

**Coefficient of Utilization**



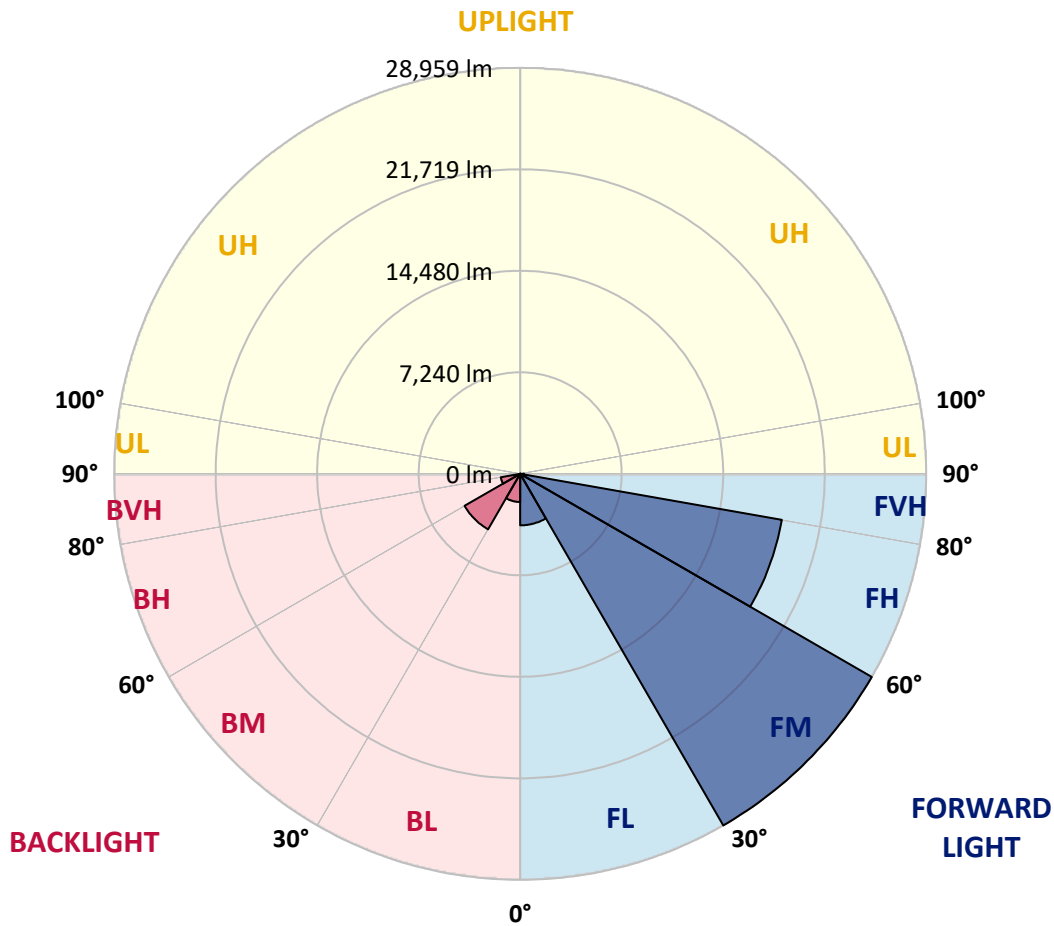
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3676.0	6.1			
FM (30°-60°)	28959.2	48.4			
FH (60°-80°)	18949.7	31.7			G5
FVH (80°-90°)	268.3	0.4			G3/500
BL (0°-30°)	2009.8	3.4	B3/2500		
BM (30°-60°)	4576.3	7.6	B3/5000		
BH (60°-80°)	1405.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	13.8	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1
2.5°	6938.0	6986.2	6974.1	6962.1	6958.1	6966.1	6970.1	6966.1	6966.1	6966.1	6970.1
5°	6805.6	6845.7	6845.7	6873.8	6914.0	6962.1	6998.2	7006.2	7014.3	7026.3	7022.3
7.5°	6552.8	6584.9	6609.0	6701.3	6801.6	6930.0	7038.3	7094.5	7102.6	7146.7	7162.7
10°	6380.3	6420.4	6460.5	6556.8	6701.3	6893.9	7078.5	7214.9	7235.0	7339.3	7387.5
12.5°	6372.2	6412.4	6464.5	6568.9	6737.4	6942.0	7166.8	7363.4	7399.5	7552.0	7652.3
15°	6456.5	6504.7	6552.8	6681.2	6861.8	7110.6	7351.3	7596.1	7632.2	7848.9	7957.3
17.5°	6629.0	6693.3	6729.4	6857.8	7050.4	7327.3	7644.3	7925.2	7957.3	8210.1	8346.5
20°	6970.1	7046.4	7058.4	7162.7	7351.3	7648.3	8025.5	8374.6	8414.7	8703.6	8856.1
22.5°	7676.4	7784.7	7688.4	7740.6	7909.1	8206.1	8615.4	9056.8	9112.9	9442.0	9578.4
25°	8920.3	9072.8	8824.0	8735.7	8808.0	9116.9	9630.6	10188.4	10252.6	10517.4	10585.6
27.5°	11364.1	11167.5	10790.3	10421.1	10204.4	10381.0	10958.8	11649.0	11729.2	11986.1	11905.8
30°	14048.6	13876.1	13366.4	12547.8	12034.2	12006.1	12539.8	13310.3	13402.6	13647.3	13402.6
32.5°	16737.1	16572.6	16018.9	15011.7	14120.8	13679.4	14048.6	14903.3	14951.5	15108.0	14746.8
35°	19381.5	19213.0	18659.2	17628.0	16532.5	15529.3	15457.1	16420.1	16436.2	16600.7	16063.0
37.5°	22042.0	21901.5	21311.7	20300.5	19221.0	17836.6	17166.5	17856.7	17876.8	18037.3	17479.5
40°	23940.0	24000.2	23594.9	22812.4	21885.5	20372.7	19084.6	19385.6	19265.2	19534.0	19201.0
42.5°	25569.2	25689.6	25336.5	24943.2	24405.5	23073.3	21460.1	21408.0	21215.4	21359.8	21014.7
45°	26977.7	27078.0	26761.0	26668.7	26656.6	25721.7	24056.4	23743.4	23474.5	23446.5	23033.1
47.5°	27495.3	27687.9	27824.4	28133.3	28735.2	28342.0	26740.9	26255.4	25954.4	25733.7	25079.6
50°	27691.9	27896.6	28362.1	29260.9	30685.4	30854.0	29413.4	28867.7	28498.5	28097.2	27134.2
52.5°	27427.1	27792.2	28418.2	29931.0	31997.6	32868.4	31977.5	31500.0	31078.7	30424.6	28996.1
55°	25866.1	26231.3	27511.4	29923.0	32651.7	34280.9	34401.2	34188.6	33715.1	32683.8	30500.9
57.5°	22575.7	23117.4	25143.8	28903.8	32639.6	35496.7	36776.8	36929.3	36399.6	34922.9	31684.6
60°	18017.2	18751.5	21223.4	26644.6	31632.4	36154.8	38859.4	39621.8	39060.0	37129.9	32643.7
62.5°	12571.9	13422.6	15762.0	23105.4	29329.1	35681.3	40380.2	41788.7	41363.3	39104.2	33012.8
65°	7668.3	7941.2	9827.2	18181.7	25412.7	33699.0	40849.7	42960.4	42820.0	40312.0	32467.1
67.5°	5108.2	5336.9	5878.7	12467.6	19726.6	29738.4	39726.1	42755.8	42795.9	40115.4	30468.7
70°	3077.8	3274.4	3627.5	7251.0	12784.6	23538.7	36247.1	40147.5	40380.2	37487.0	26680.7
72.5°	1268.0	1400.4	1721.5	3286.4	6621.0	14939.4	28863.7	34469.5	35011.2	31520.1	20477.0
75°	718.3	786.5	1011.2	1649.2	2873.1	6962.1	17483.5	24469.7	25268.2	21725.0	12319.1
77.5°	477.5	509.6	654.1	1067.4	1617.1	2375.5	7471.7	12748.5	14273.3	11865.7	5332.9
80°	321.0	349.1	449.4	714.3	1051.3	1019.2	2379.6	4723.0	5810.5	4076.9	1300.1
82.5°	216.7	220.7	321.0	469.5	666.1	493.6	702.2	1468.7	1845.9	1179.7	493.6
85°	124.4	120.4	236.8	272.9	296.9	204.6	212.7	441.4	577.8	497.6	280.9
87.5°	16.1	24.1	92.3	72.2	40.1	44.1	44.1	76.2	112.4	120.4	60.2
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°	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1	6962.1
2.5°	6970.1	6966.1	6954.1	6942.0	6914.0	6897.9	6905.9	6897.9	6893.9	6897.9	6914.0
5°	7022.3	7010.3	6978.2	6938.0	6881.9	6813.6	6769.5	6705.3	6645.1	6609.0	6617.0
7.5°	7162.7	7150.7	7106.6	6994.2	6813.6	6528.7	6267.9	6039.2	5866.6	5766.3	5770.3
10°	7387.5	7367.4	7299.2	7050.4	6576.9	5954.9	5437.3	5007.9	4727.0	4594.6	4582.6
12.5°	7652.3	7628.2	7507.8	6998.2	6127.5	5156.4	4442.1	3964.6	3703.8	3587.4	3575.4
15°	7965.3	7933.2	7696.4	6749.4	5473.4	4273.6	3619.5	3262.4	3093.8	2989.5	2993.5
17.5°	8354.5	8298.3	7836.9	6376.2	4763.1	3599.4	3113.9	2845.0	2696.6	2596.2	2588.2
20°	8860.1	8767.8	7949.2	5930.8	4109.0	3174.1	2772.8	2548.1	2435.7	2347.5	2331.4
22.5°	9566.4	9434.0	8085.7	5449.3	3647.6	2881.1	2520.0	2355.5	2263.2	2162.9	2146.8
25°	10441.2	10284.7	8254.2	5003.9	3330.6	2628.3	2335.4	2199.0	2090.6	1974.3	1962.2
27.5°	11665.0	11384.1	8454.8	4638.7	3057.7	2411.7	2166.9	2014.4	1890.0	1793.7	1773.6
30°	13029.4	12567.9	8631.4	4418.0	2808.9	2211.0	1946.2	1793.7	1677.3	1609.1	1597.1
32.5°	14321.5	13695.5	8747.8	4321.7	2584.2	1982.3	1705.4	1540.9	1452.6	1432.5	1444.6
35°	15541.3	14714.7	8735.7	4229.4	2383.6	1753.6	1468.7	1300.1	1231.9	1243.9	1243.9
37.5°	16945.8	15802.2	8651.5	4085.0	2219.0	1544.9	1264.0	1115.5	1055.4	1059.4	1075.4
40°	18579.0	17058.2	8599.3	3812.1	2038.5	1352.3	1095.5	975.1	931.0	914.9	910.9
42.5°	20320.5	18274.0	8607.3	3503.1	1813.8	1179.7	979.1	878.8	838.7	826.6	822.6
45°	22070.1	19433.7	8619.4	3182.1	1577.0	1047.3	894.8	810.6	786.5	770.4	770.4
47.5°	23715.3	20420.8	8394.7	2837.0	1344.3	947.0	826.6	770.4	750.4	730.3	730.3
50°	25248.2	21078.9	7852.9	2435.7	1159.7	866.8	774.5	734.3	714.3	694.2	694.2
52.5°	26440.0	21183.3	6958.1	2022.4	1031.3	806.6	742.4	706.2	682.2	662.1	658.1
55°	26969.6	20529.2	5686.1	1637.2	931.0	754.4	710.3	674.1	646.1	626.0	622.0
57.5°	26833.2	19152.8	4434.1	1316.2	834.7	702.2	670.1	646.1	613.9	581.8	577.8
60°	26163.1	17311.0	3342.6	1095.5	746.4	646.1	626.0	605.9	561.8	513.6	505.6
62.5°	25003.4	14995.6	2383.6	906.9	650.1	581.8	573.8	557.8	493.6	405.3	397.3
65°	23229.8	12182.7	1605.1	754.4	557.8	509.6	513.6	485.5	401.3	301.0	292.9
67.5°	20637.5	8908.3	1027.3	618.0	465.5	425.4	429.4	413.3	341.1	256.8	244.8
70°	17335.0	5898.7	670.1	469.5	373.2	329.0	353.1	357.1	288.9	208.7	200.6
72.5°	12708.4	3483.1	469.5	349.1	272.9	228.7	288.9	296.9	232.7	156.5	148.5
75°	7243.0	1653.2	353.1	252.8	168.5	160.5	224.7	224.7	160.5	104.3	96.3
77.5°	3041.7	690.2	248.8	164.5	96.3	92.3	152.5	140.4	80.3	48.2	48.2
80°	878.8	309.0	132.4	80.3	40.1	36.1	60.2	44.1	20.1	8.0	8.0
82.5°	345.1	136.4	52.2	32.1	16.1	16.1	8.0	0.0	0.0	0.0	0.0
85°	204.6	56.2	24.1	12.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.2	12.0	8.0	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)