

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: P269310

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27775.9 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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: 25 FT

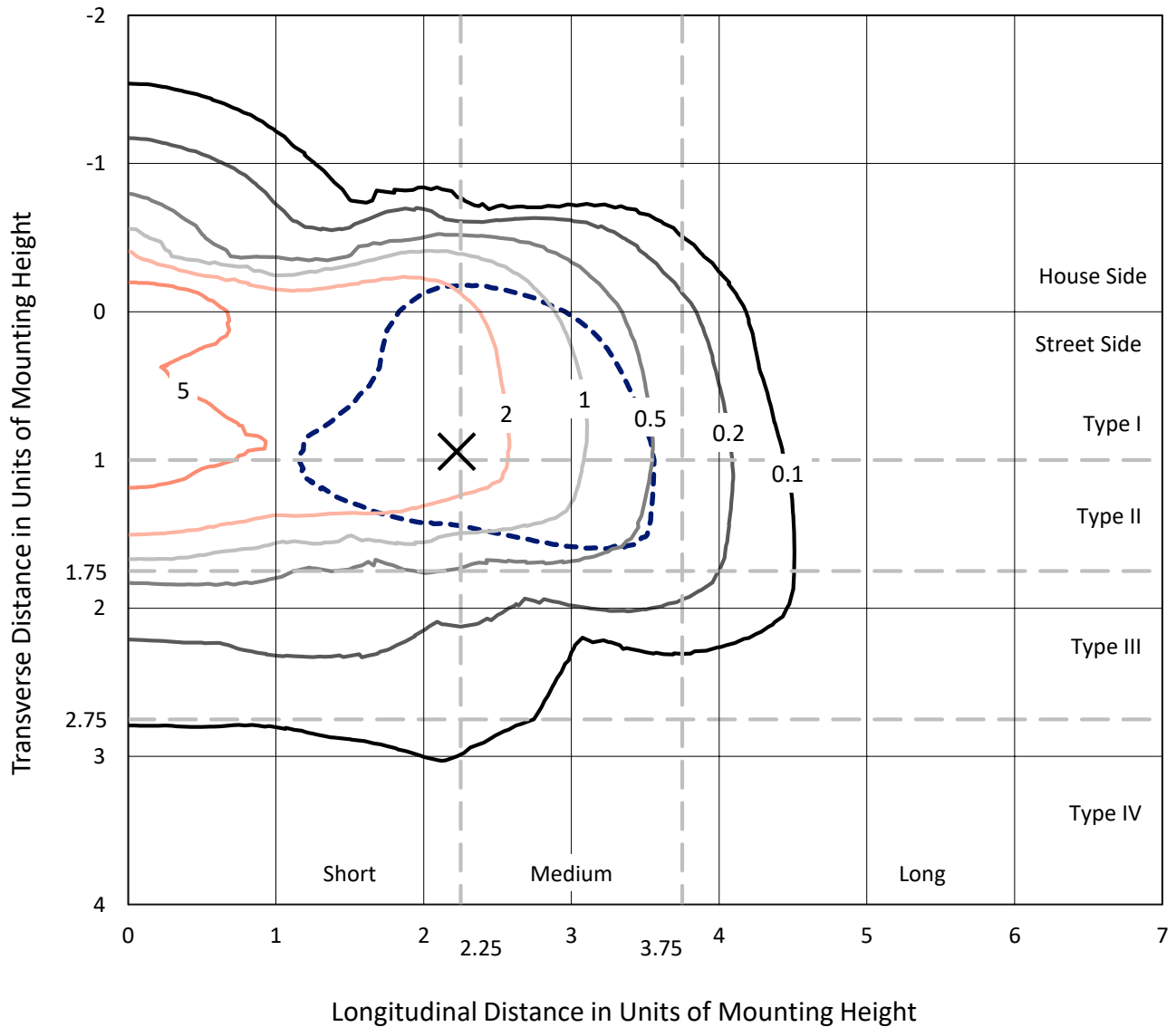


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

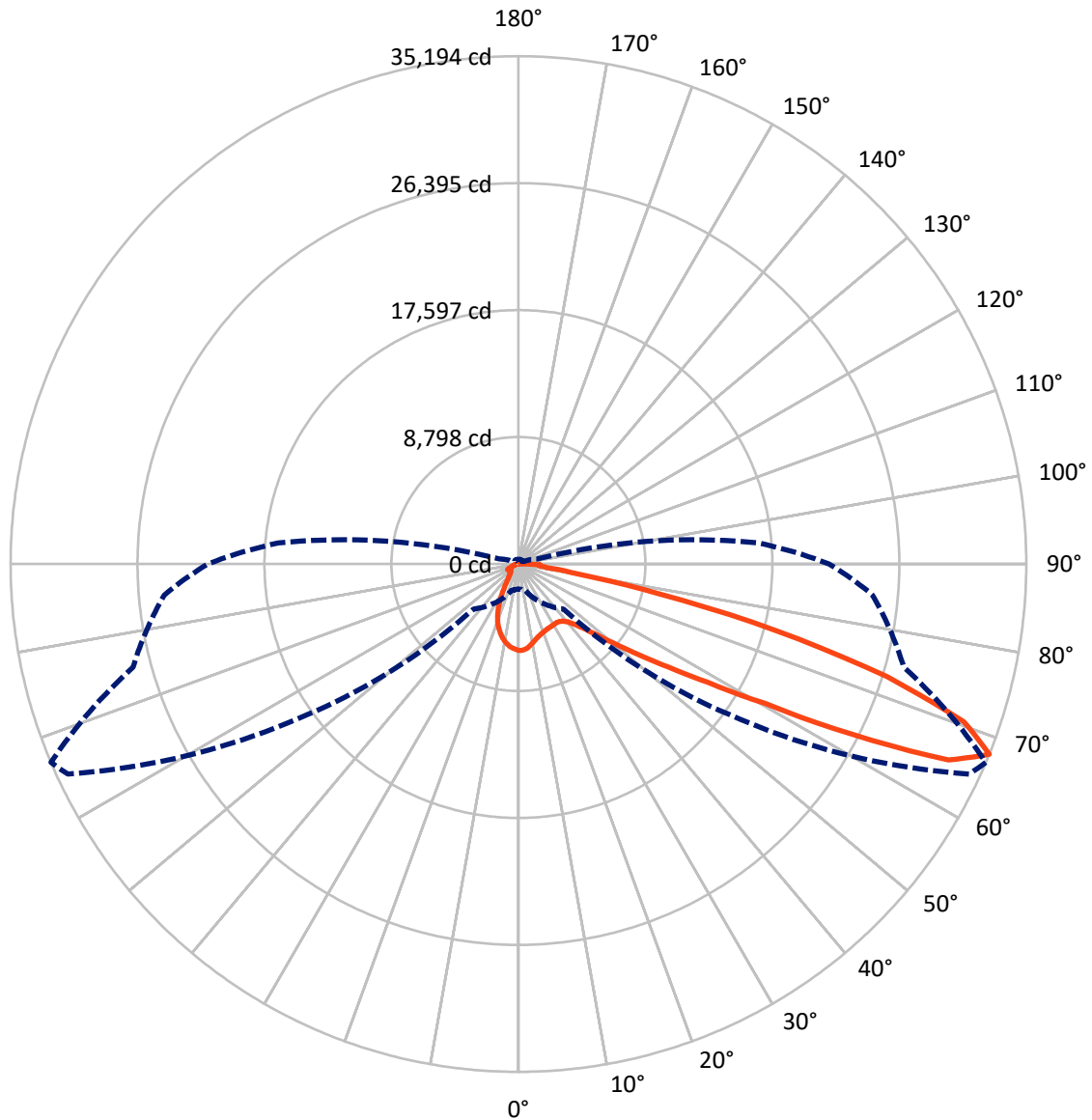


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4602.2	0.0	4602.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23173.8	0.0	23173.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	27775.9	0.0	27775.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.1	1.8
10°-20°	1182.7	4.3
20°-30°	1603.2	5.8
30°-40°	2279.1	8.2
40°-50°	3813.0	13.7
50°-60°	6032.1	21.7
60°-70°	7684.3	27.7
70°-80°	4025.0	14.5
80°-90°	645.5	2.3
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°	27775.9	100.0
0°-180°	27775.9	100.0

Coefficient of Utilization



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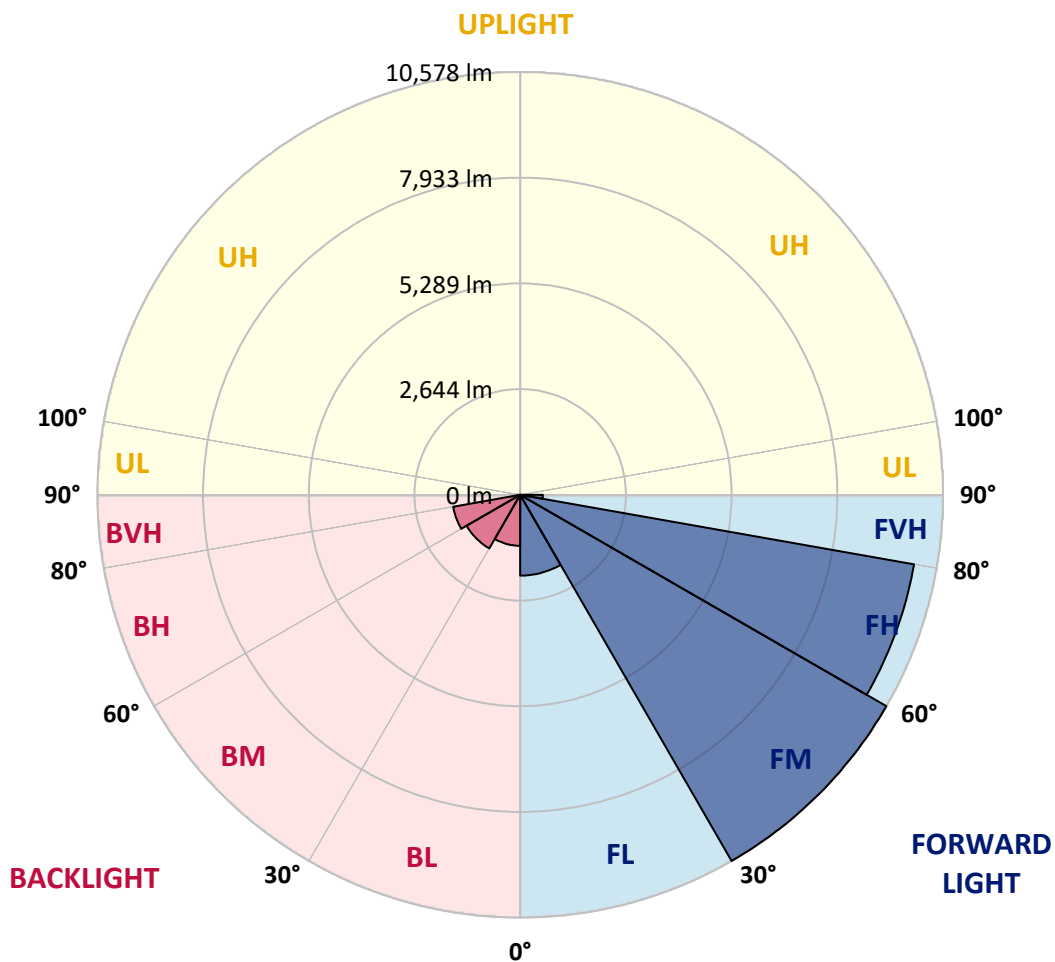
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.4	7.3			
FM (30°-60°)	10577.6	38.1			
FH (60°-80°)	10007.1	36.0			G4/12000
FVH (80°-90°)	567.6	2.0			G4/750
BL (0°-30°)	1275.6	4.6	B3/2500		
BM (30°-60°)	1546.5	5.6	B2/2500		
BH (60°-80°)	1702.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	77.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2
2.5°	5744.7	5754.3	5784.4	5803.5	5889.8	5926.7	5952.9	5978.8	5983.0	5995.3	5983.0
5°	5142.0	5162.5	5218.7	5281.7	5448.8	5580.4	5718.6	5862.5	5888.5	5981.6	6007.7
7.5°	4674.9	4669.4	4716.0	4791.3	4962.5	5144.8	5387.1	5673.4	5729.6	5939.1	6040.6
10°	4333.9	4329.7	4379.1	4457.1	4620.2	4792.6	5066.6	5458.5	5537.8	5872.0	6072.1
12.5°	4081.8	4083.2	4132.5	4218.8	4384.4	4558.4	4836.6	5250.1	5351.6	5794.0	6104.9
15°	3914.8	3925.7	3965.4	4057.1	4218.8	4392.7	4665.3	5094.0	5207.7	5732.4	6141.9
17.5°	3858.5	3876.4	3890.0	3957.2	4095.6	4269.5	4536.5	4978.9	5099.5	5689.9	6174.7
20°	3910.6	3931.2	3905.1	3928.4	4016.1	4169.5	4435.2	4888.5	5011.9	5642.0	6178.8
22.5°	4133.8	4153.0	4076.2	4009.1	4003.7	4096.9	4351.6	4817.3	4944.7	5606.3	6180.2
25°	4527.0	4539.2	4410.5	4254.5	4102.3	4070.8	4292.7	4768.1	4903.7	5574.8	6154.2
27.5°	5009.0	5018.7	4870.8	4640.6	4335.2	4132.5	4272.2	4739.3	4880.3	5547.5	6110.5
30°	5595.4	5640.5	5441.9	5151.6	4706.4	4314.6	4313.3	4724.1	4854.4	5500.9	6024.0
32.5°	6195.3	6214.5	6077.6	5783.0	5206.3	4635.2	4428.4	4735.1	4847.4	5444.6	5914.5
35°	6803.5	6828.0	6739.1	6502.1	5889.8	5105.0	4653.0	4799.6	4890.0	5425.6	5837.7
37.5°	7591.0	7623.9	7500.7	7226.7	6721.3	5741.8	5026.9	4961.2	5020.1	5480.3	5814.5
40°	8836.1	8821.0	8460.9	8052.6	7630.7	6556.9	5561.0	5235.1	5269.4	5656.9	5885.8
42.5°	10285.4	10248.4	9627.9	8986.9	8630.6	7543.1	6267.8	5710.3	5703.6	6004.9	6136.4
45°	11441.4	11411.2	10852.3	10062.0	9777.2	8666.3	7181.5	6418.6	6367.8	6556.9	6599.4
47.5°	12067.3	12068.6	11746.7	11101.7	11094.7	10093.5	8355.3	7443.0	7355.4	7444.4	7399.2
50°	11848.1	11876.9	11842.6	11637.3	12297.4	11964.5	9888.1	8871.8	8695.1	8782.6	8608.7
52.5°	10787.9	10824.9	11027.8	11342.7	12802.9	14226.0	12140.0	10646.9	10441.4	10410.0	10216.9
55°	8908.8	8953.9	9367.5	10223.7	12382.3	15745.0	15693.0	12909.7	12582.3	12285.1	12202.9
57.5°	6140.5	6215.8	6881.6	8152.7	11022.3	16203.8	19924.0	16135.4	15469.7	14431.5	14450.7
60°	3461.3	3548.9	4333.9	5488.6	8277.3	15705.3	23142.9	21021.2	19615.8	16944.9	17087.4
62.5°	2201.1	2295.7	2891.6	3813.3	4966.6	13020.7	24462.0	27813.7	26029.0	20043.3	20182.9
65°	1782.0	1823.1	2103.9	3147.7	3606.4	7844.4	23460.8	33409.0	32743.4	23975.8	23323.8
67.5°	1739.6	1753.2	1898.5	2642.3	3458.6	4409.2	18713.2	34455.6	35193.8	27648.0	24631.9
70°	1718.9	1767.0	2139.6	2521.7	3312.1	3718.9	11245.5	31587.3	32753.0	28608.2	22890.9
72.5°	834.2	831.4	1076.6	2280.5	3731.1	3857.1	5777.4	25557.8	26727.5	24785.2	18810.5
75°	672.6	615.0	587.6	835.6	3587.3	3983.2	3681.9	17585.9	18432.4	16617.6	11563.3
77.5°	638.2	569.9	521.8	523.3	1516.2	4224.3	3118.8	9733.2	9979.9	7506.1	3168.2
80°	528.7	465.7	431.5	486.3	734.2	4022.9	3372.2	4405.1	4042.1	1843.6	1054.7
82.5°	367.0	334.2	324.6	408.2	587.6	2866.9	3921.6	2366.9	1984.7	923.2	650.6
85°	234.2	200.1	221.9	297.2	457.4	1323.2	4039.3	1844.9	1467.0	586.2	367.0
87.5°	108.2	87.7	109.6	164.4	298.5	456.1	3843.5	2072.4	1510.8	309.6	231.6
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°	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2	5991.2
2.5°	5993.9	5967.9	5947.4	5909.1	5866.6	5825.5	5788.5	5741.8	5728.2	5715.8	5735.0
5°	6013.2	5987.2	5911.7	5794.0	5663.9	5542.0	5420.1	5315.9	5251.5	5215.9	5236.5
7.5°	6041.9	6004.9	5848.8	5632.4	5398.2	5184.4	4963.9	4787.2	4657.2	4595.5	4613.2
10°	6068.0	5996.6	5741.8	5417.3	5074.9	4757.1	4409.2	4121.6	3907.8	3795.5	3822.8
12.5°	6078.9	5965.1	5592.6	5148.8	4679.0	4213.3	3700.9	3270.9	2964.0	2851.8	2828.6
15°	6089.8	5929.5	5428.3	4843.3	4201.0	3542.1	2824.5	2309.4	2054.7	1998.4	1986.2
17.5°	6092.6	5867.9	5242.0	4511.8	3640.7	2743.6	1931.4	1604.0	1605.4	1695.7	1706.7
20°	6063.7	5776.1	5016.0	4099.7	2969.5	1897.1	1325.9	1269.8	1476.5	1702.6	1730.0
22.5°	5998.1	5654.2	4759.8	3618.8	2201.1	1249.3	1026.0	1087.6	1354.6	1631.3	1662.9
25°	5914.5	5506.3	4457.1	3061.3	1457.4	893.0	860.1	935.6	1116.4	1301.3	1319.0
27.5°	5800.9	5331.0	4117.4	2423.1	946.5	735.5	757.5	808.1	882.0	964.3	972.5
30°	5654.2	5121.4	3754.5	1767.0	715.1	661.6	693.1	720.5	752.1	798.6	802.6
32.5°	5485.8	4920.0	3381.8	1220.4	634.3	623.2	647.9	661.6	686.2	715.1	717.7
35°	5344.6	4728.3	2995.6	862.9	600.0	594.5	610.8	616.3	639.7	671.2	673.9
37.5°	5263.9	4572.2	2597.0	695.8	576.6	568.4	578.0	578.0	610.8	657.5	664.3
40°	5269.4	4485.9	2198.4	628.8	557.5	546.4	547.8	547.8	590.4	641.0	645.2
42.5°	5418.7	4507.8	1844.9	602.8	542.3	530.1	523.3	527.3	563.0	595.8	598.6
45°	5769.4	4662.6	1513.6	586.2	527.3	523.3	508.3	506.9	520.5	535.6	535.6
47.5°	6344.5	4967.9	1288.9	575.3	515.0	513.7	495.9	478.1	476.7	482.1	482.1
50°	7280.1	5493.9	1138.2	563.0	506.9	495.9	475.4	448.0	438.4	442.4	442.4
52.5°	8682.7	6432.3	1080.8	546.4	488.9	471.3	448.0	420.4	412.3	413.7	413.7
55°	10522.2	7873.3	1072.4	527.3	469.9	441.1	421.8	401.4	391.8	394.4	394.4
57.5°	12769.9	9866.2	1219.1	497.2	443.9	411.0	399.9	386.4	379.4	383.5	382.1
60°	15502.6	12474.1	1808.1	465.7	417.8	383.5	383.5	372.5	367.0	371.2	369.8
62.5°	18650.3	15469.7	2542.3	442.4	390.4	361.6	367.0	361.6	356.1	358.9	357.4
65°	21441.7	17421.5	2380.6	424.5	362.9	341.0	350.7	348.0	343.8	346.6	345.2
67.5°	21522.6	16698.4	1336.9	405.5	337.0	320.5	334.2	332.8	330.0	332.8	331.5
70°	19207.6	14099.9	753.4	369.8	309.6	295.8	315.0	313.7	311.0	316.5	315.0
72.5°	15389.0	10231.9	550.7	325.9	282.2	269.9	291.8	290.4	290.4	298.5	294.5
75°	8855.3	5265.2	439.7	279.5	253.4	243.8	263.1	264.3	267.1	278.0	269.9
77.5°	2524.3	1640.9	358.9	237.0	217.7	213.6	232.8	235.5	237.0	249.3	238.3
80°	938.3	756.2	295.8	198.6	178.0	179.4	197.3	201.3	202.7	215.1	201.3
82.5°	598.6	498.6	239.7	153.4	139.6	138.3	160.3	165.7	165.7	167.2	158.9
85°	349.4	298.5	180.7	110.9	98.6	94.5	119.1	128.7	124.7	121.9	116.4
87.5°	234.2	205.4	110.9	61.7	53.4	50.7	69.9	76.7	74.0	69.9	65.8
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)