

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: P269305

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269305
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 25320.2 lumens
Efficiency: N/A
Efficacy: 90.8 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

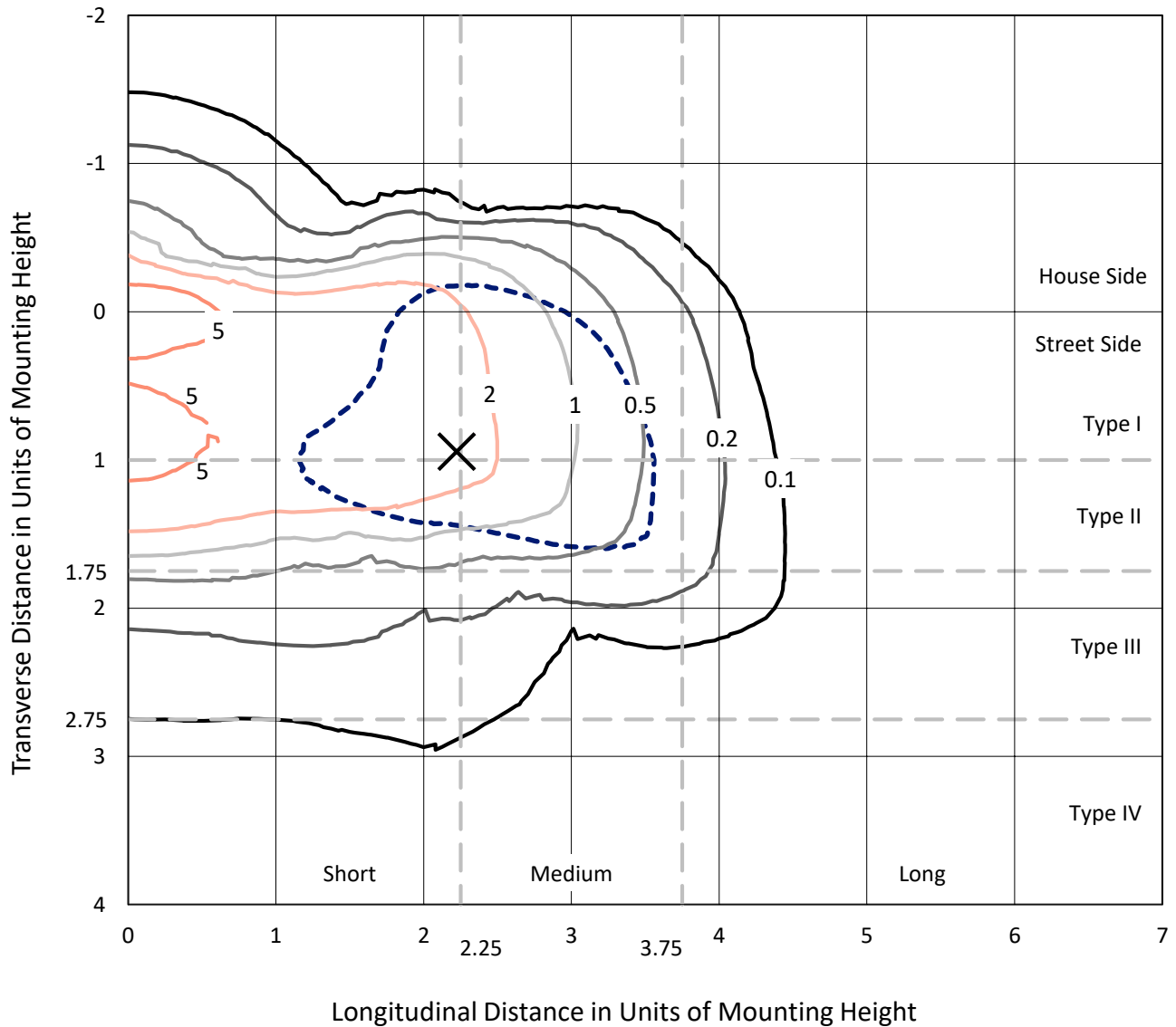
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

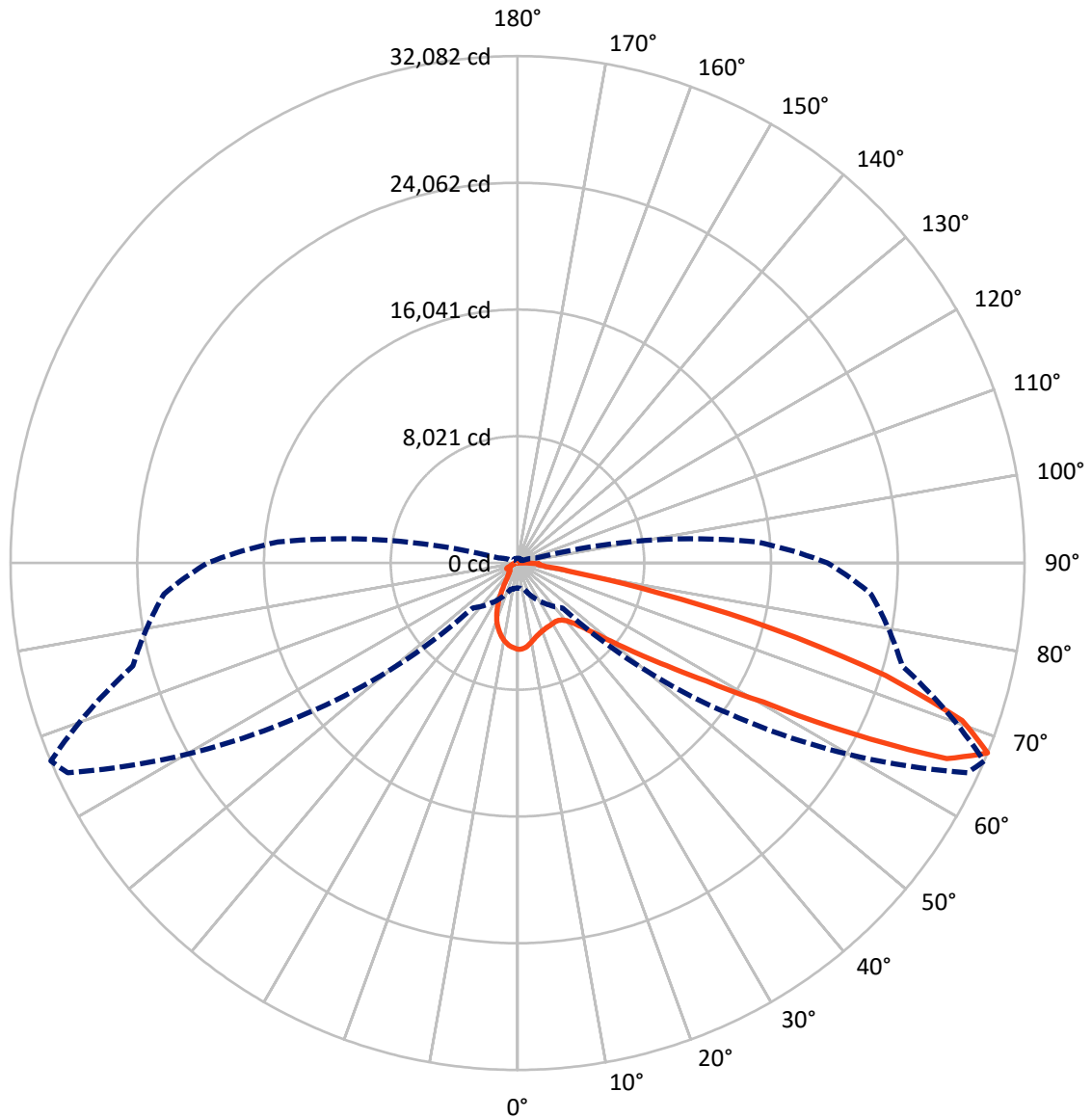
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	4195.3	0.0	4195.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	21125.0	0.0	21125.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	25320.2	0.0	25320.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	1.8
10°-20°	1078.1	4.3
20°-30°	1461.4	5.8
30°-40°	2077.6	8.2
40°-50°	3475.9	13.7
50°-60°	5498.8	21.7
60°-70°	7004.9	27.7
70°-80°	3669.2	14.5
80°-90°	588.5	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°	25320.2	100.0
0°-180°	25320.2	100.0

Coefficient of Utilization



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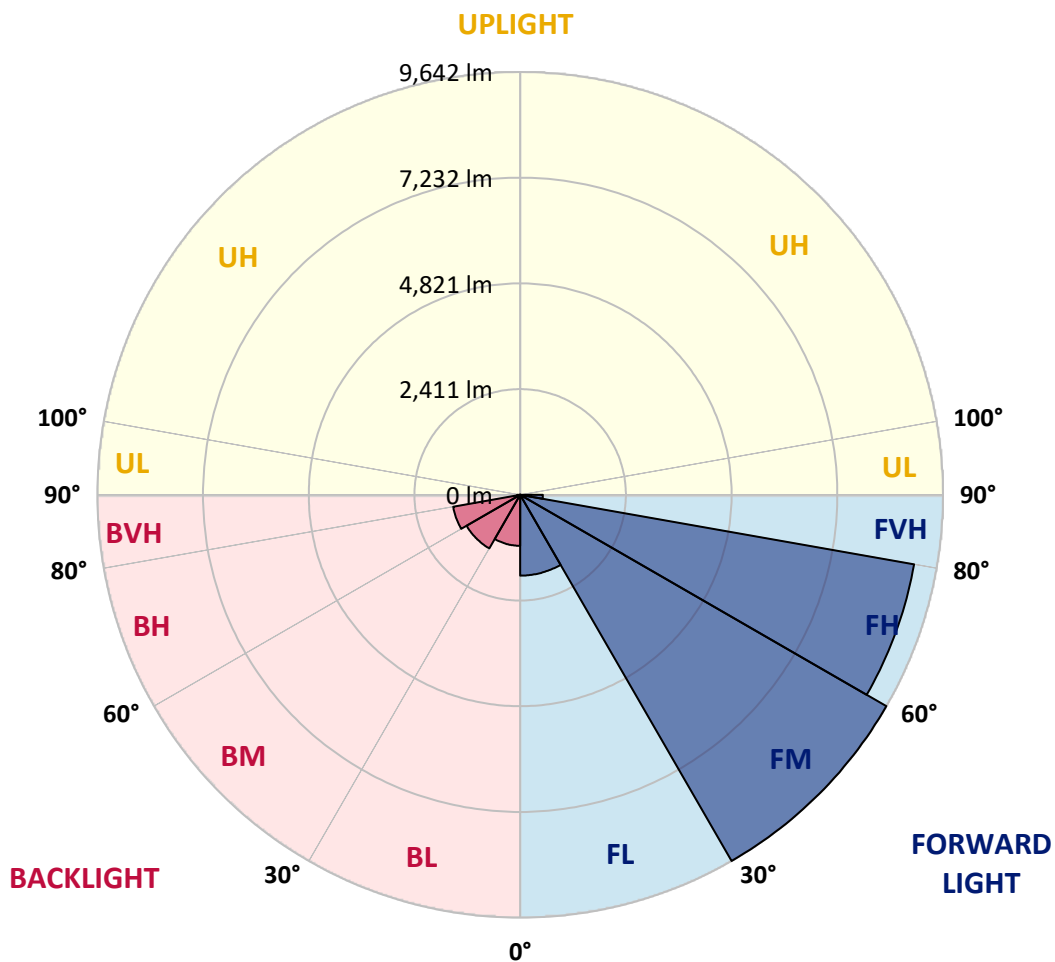
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.7	7.3			
FM	(30°-60°)	9642.5	38.1			
FH	(60°-80°)	9122.4	36.0			G4/12000
FVH	(80°-90°)	517.4	2.0			G4/750
BL	(0°-30°)	1162.8	4.6	B3/2500		
BM	(30°-60°)	1409.7	5.6	B2/2500		
BH	(60°-80°)	1551.7	6.1	B3/2500		G3/2500
BVH	(80°-90°)	71.0	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°	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5
2.5°	5236.8	5245.6	5273.1	5290.5	5369.1	5402.9	5426.5	5450.2	5454.0	5465.3	5454.0
5°	4687.4	4706.1	4757.2	4814.7	4967.1	5086.9	5213.0	5344.1	5367.9	5452.8	5476.4
7.5°	4261.6	4256.6	4299.1	4367.6	4523.8	4690.0	4910.9	5171.8	5223.0	5414.1	5506.5
10°	3950.7	3947.0	3991.9	4063.0	4211.7	4368.9	4618.6	4975.8	5048.3	5352.9	5535.1
12.5°	3720.9	3722.1	3767.1	3845.7	3996.9	4155.5	4408.9	4786.0	4878.4	5281.8	5565.2
15°	3568.5	3578.6	3614.8	3698.4	3845.7	4004.4	4252.8	4643.7	4747.4	5225.5	5598.9
17.5°	3517.5	3533.7	3546.1	3607.4	3733.4	3891.9	4135.4	4538.7	4648.6	5186.9	5628.8
20°	3564.8	3583.6	3559.9	3581.1	3661.0	3800.9	4043.1	4456.4	4568.7	5143.2	5632.6
22.5°	3768.4	3785.8	3715.8	3654.8	3649.8	3734.7	3966.9	4391.5	4507.5	5110.6	5633.8
25°	4126.8	4138.0	4020.6	3878.3	3739.6	3711.0	3913.1	4346.4	4470.1	5081.9	5610.2
27.5°	4566.3	4575.0	4440.1	4230.4	3952.0	3767.1	3894.5	4320.3	4448.9	5057.0	5570.1
30°	5100.7	5141.9	4960.8	4696.1	4290.2	3933.1	3931.9	4306.6	4425.1	5014.5	5491.5
32.5°	5647.6	5665.0	5540.1	5271.8	4746.0	4225.4	4036.9	4316.5	4418.9	4963.3	5391.5
35°	6202.0	6224.4	6143.2	5927.2	5369.1	4653.7	4241.5	4375.3	4457.6	4945.9	5321.6
37.5°	6920.0	6949.8	6837.4	6587.8	6127.0	5234.2	4582.4	4522.5	4576.2	4995.7	5300.4
40°	8054.9	8041.2	7712.8	7340.7	6956.1	5977.2	5069.4	4772.2	4803.4	5156.9	5365.3
42.5°	9376.0	9342.3	8776.6	8192.3	7867.6	6876.3	5713.7	5205.6	5199.3	5474.0	5593.8
45°	10429.9	10402.4	9892.9	9172.5	8912.8	7900.1	6546.6	5851.1	5804.8	5977.2	6015.9
47.5°	11000.5	11001.7	10708.2	10120.1	10113.9	9201.2	7616.6	6785.1	6705.2	6786.3	6745.2
50°	10800.7	10826.9	10795.7	10608.4	11210.2	10906.9	9014.0	8087.4	7926.4	8006.2	7847.7
52.5°	9834.3	9867.9	10052.8	10339.9	11671.0	12968.3	11066.6	9705.6	9518.4	9489.6	9313.5
55°	8121.0	8162.3	8539.4	9319.7	11287.7	14352.9	14305.6	11768.3	11470.0	11199.0	11124.2
57.5°	5597.6	5666.2	6273.1	7431.9	10047.7	14771.3	18162.7	14708.8	14102.0	13155.6	13173.0
60°	3155.2	3235.2	3950.7	5003.3	7545.6	14316.7	21096.9	19162.7	17881.8	15446.8	15576.7
62.5°	2006.5	2092.7	2635.8	3476.3	4527.5	11869.6	22299.3	25354.8	23727.8	18271.3	18398.5
65°	1624.5	1662.0	1917.9	2869.4	3287.6	7150.9	21386.6	30455.3	29848.5	21856.0	21261.8
67.5°	1585.8	1598.3	1730.7	2408.6	3152.8	4019.3	17058.9	31409.3	32082.3	25203.7	22454.2
70°	1567.1	1610.8	1950.4	2298.8	3019.3	3390.1	10251.3	28794.7	29857.2	26079.0	20867.2
72.5°	760.4	757.9	981.4	2078.9	3401.3	3516.1	5266.8	23298.3	24364.5	22594.0	17147.4
75°	613.1	560.6	535.7	761.7	3270.2	3630.9	3356.3	16031.2	16802.8	15148.4	10540.9
77.5°	581.8	519.4	475.7	477.0	1382.2	3850.8	2843.1	8872.7	9097.6	6842.5	2888.1
80°	482.0	424.4	393.3	443.3	669.2	3667.2	3074.1	4015.7	3684.7	1680.6	961.5
82.5°	334.6	304.6	295.9	372.1	535.7	2613.3	3574.9	2157.5	1809.2	841.6	593.2
85°	213.4	182.3	202.3	271.0	417.1	1206.2	3682.2	1681.8	1337.2	534.4	334.6
87.5°	98.6	79.9	99.9	149.8	272.1	415.7	3503.7	1889.1	1377.2	282.2	211.0
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°	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5	5461.5
2.5°	5464.0	5440.2	5421.6	5386.5	5347.9	5310.4	5276.7	5234.2	5221.8	5210.6	5228.0
5°	5481.5	5457.7	5389.1	5281.8	5163.1	5052.0	4940.9	4845.9	4787.2	4754.8	4773.6
7.5°	5507.7	5474.0	5331.7	5134.4	4920.8	4726.1	4525.0	4364.0	4245.4	4189.2	4205.3
10°	5531.5	5466.5	5234.2	4938.3	4626.2	4336.5	4019.3	3757.2	3562.4	3459.9	3485.0
12.5°	5541.5	5437.8	5098.2	4693.6	4265.3	3840.9	3373.9	2981.7	2702.0	2599.7	2578.4
15°	5551.4	5405.3	4948.4	4415.2	3829.6	3229.0	2574.7	2105.2	1873.0	1821.8	1810.5
17.5°	5554.0	5349.1	4778.5	4113.0	3318.9	2501.1	1760.6	1462.1	1463.3	1545.9	1555.9
20°	5527.7	5265.4	4572.6	3737.2	2707.0	1729.3	1208.7	1157.5	1346.0	1552.0	1577.1
22.5°	5467.8	5154.4	4339.1	3298.8	2006.5	1138.7	935.2	991.4	1234.9	1487.1	1515.8
25°	5391.5	5019.5	4063.0	2790.7	1328.6	814.1	784.1	852.9	1017.6	1186.2	1202.4
27.5°	5288.0	4859.7	3753.4	2208.8	862.8	670.6	690.4	736.7	804.2	879.0	886.5
30°	5154.4	4668.6	3422.5	1610.8	651.8	603.1	631.8	656.8	685.4	727.9	731.7
32.5°	5000.8	4485.1	3082.9	1112.6	578.1	568.1	590.5	603.1	625.6	651.8	654.2
35°	4872.1	4310.2	2730.8	786.6	546.9	541.9	556.9	561.9	583.1	611.8	614.4
37.5°	4798.4	4168.0	2367.5	634.4	525.7	518.2	526.9	526.9	556.9	599.3	605.5
40°	4803.4	4089.3	2004.1	573.1	508.3	498.2	499.5	499.5	538.2	584.3	588.1
42.5°	4939.6	4109.2	1681.8	549.5	494.4	483.2	477.0	480.8	513.2	543.1	545.6
45°	5259.2	4250.3	1379.7	534.4	480.8	477.0	463.3	462.0	474.5	488.1	488.1
47.5°	5783.6	4528.7	1175.0	524.4	469.5	468.2	451.9	435.8	434.5	439.5	439.5
50°	6636.5	5008.3	1037.6	513.2	462.0	451.9	433.3	408.3	399.6	403.2	403.2
52.5°	7915.1	5863.5	985.3	498.2	445.7	429.5	408.3	383.3	375.9	377.1	377.1
55°	9592.0	7177.2	977.6	480.8	428.3	402.0	384.6	365.9	357.0	359.6	359.6
57.5°	11641.0	8993.9	1111.4	453.3	404.5	374.7	364.6	352.1	345.8	349.6	348.4
60°	14132.0	11371.3	1648.2	424.4	380.8	349.6	349.6	339.6	334.6	338.4	337.1
62.5°	17001.4	14102.0	2317.4	403.2	355.9	329.7	334.6	329.7	324.6	327.2	325.8
65°	19546.1	15881.3	2170.1	387.1	330.8	311.0	319.6	317.1	313.4	315.9	314.6
67.5°	19619.7	15222.0	1218.7	369.7	307.2	292.2	304.6	303.4	300.9	303.4	302.2
70°	17509.6	12853.4	686.8	337.1	282.2	269.8	287.2	285.9	283.4	288.4	287.2
72.5°	14028.4	9327.3	502.0	297.2	257.3	246.0	266.0	264.7	264.7	272.1	268.5
75°	8072.3	4799.7	400.9	254.7	231.0	222.3	239.8	240.9	243.5	253.5	246.0
77.5°	2301.2	1495.9	327.2	216.0	198.5	194.8	212.3	214.8	216.0	227.2	217.3
80°	855.4	689.2	269.8	181.1	162.4	163.6	179.8	183.6	184.8	196.0	183.6
82.5°	545.6	454.5	218.5	139.9	127.4	126.1	146.1	151.1	151.1	152.4	144.8
85°	318.4	272.1	164.7	101.1	89.9	86.1	108.7	117.4	113.6	111.1	106.1
87.5°	213.4	187.2	101.1	56.1	48.7	46.3	63.7	69.9	67.5	63.7	59.9
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)