

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: P191252

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23339.6 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

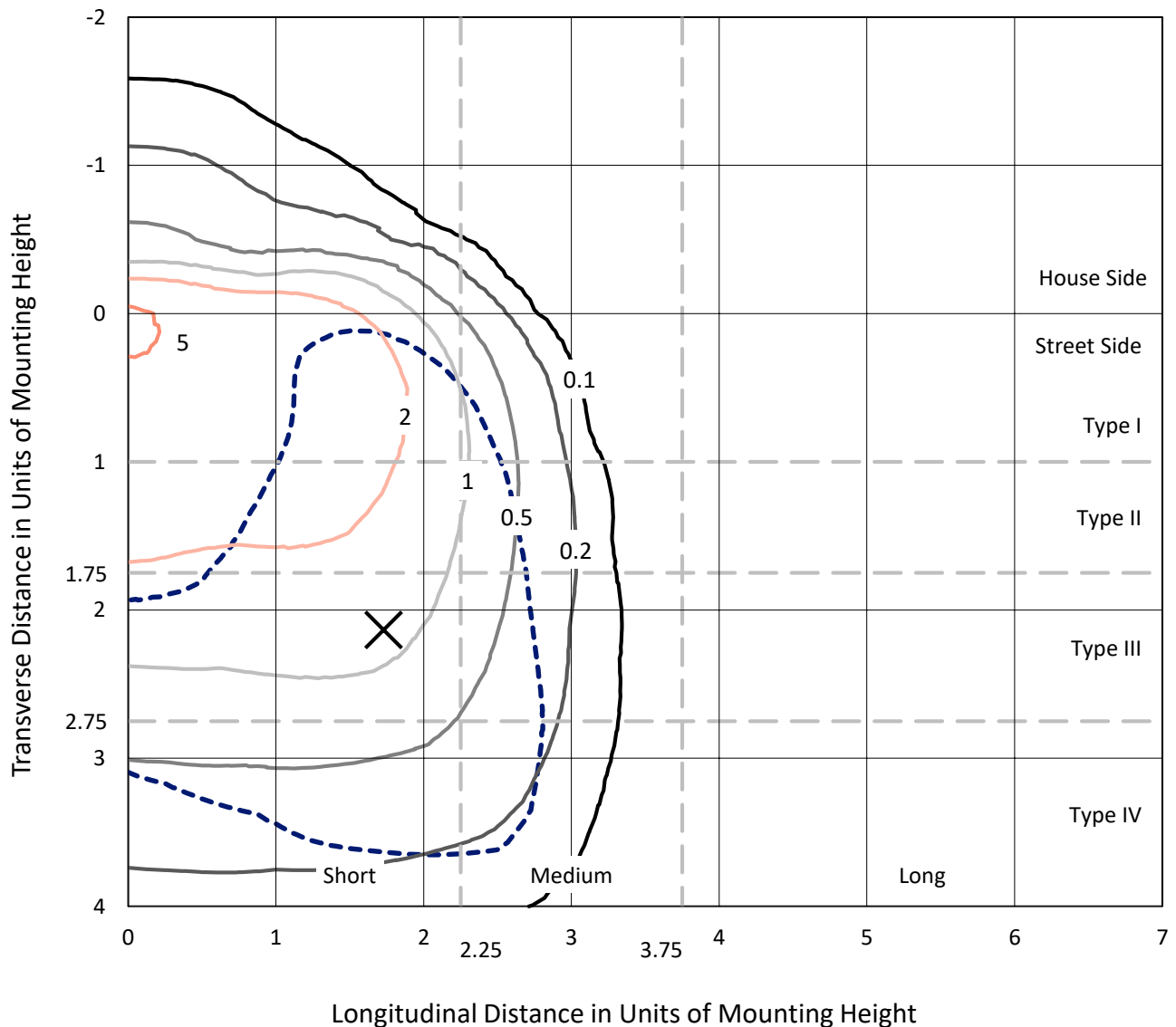
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

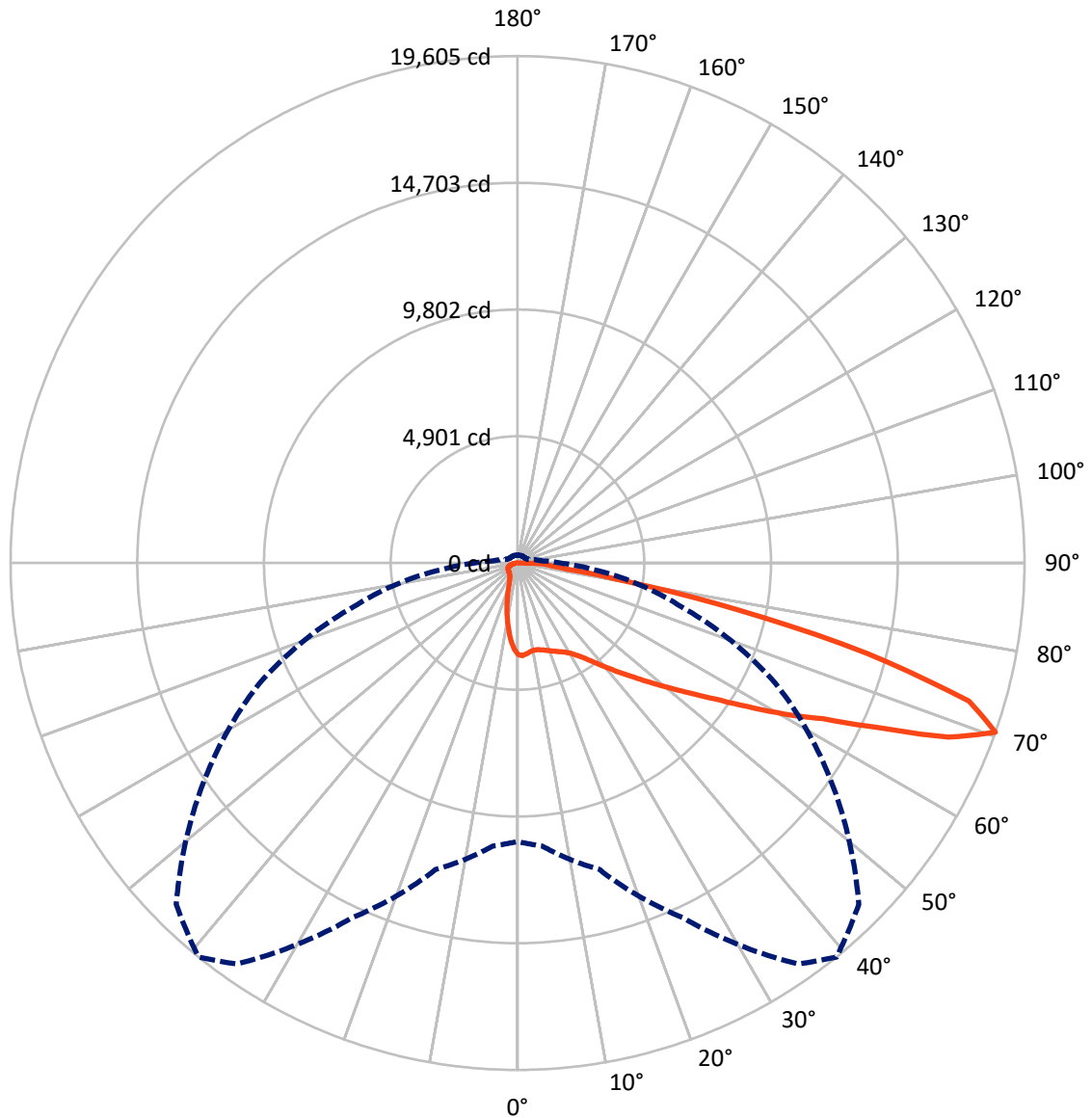


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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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
House Side	Lumens	2654.5	0.0	2654.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	20685.1	0.0	20685.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	23339.6	0.0	23339.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.1	1.3
10°-20°	760.1	3.3
20°-30°	1183.5	5.1
30°-40°	1843.7	7.9
40°-50°	3095.2	13.3
50°-60°	4917.0	21.1
60°-70°	6558.7	28.1
70°-80°	3960.6	17.0
80°-90°	716.8	3.1
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°	23339.6	100.0
0°-180°	23339.6	100.0



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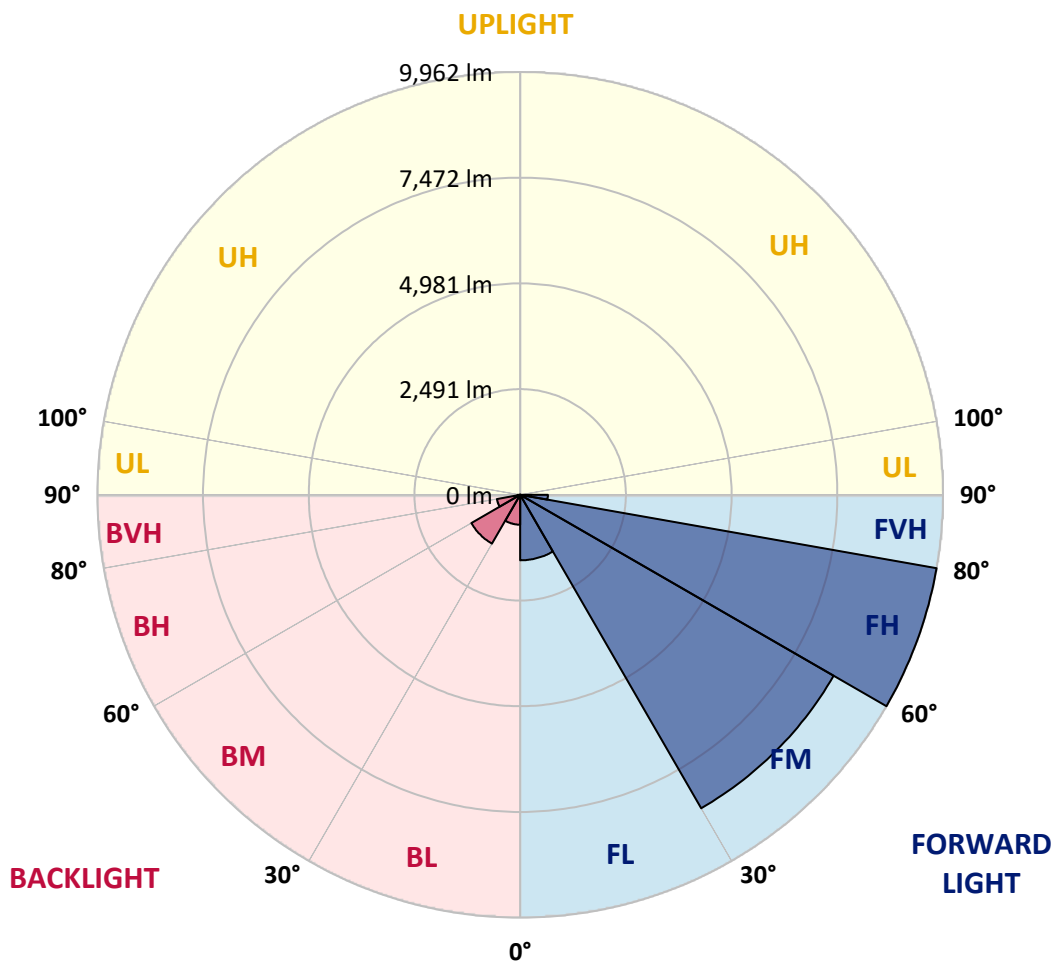
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.5	6.6			
FM	(30°-60°)	8527.4	36.5			
FH	(60°-80°)	9962.0	42.7			G4/12000
FVH	(80°-90°)	652.2	2.8			G4/750
BL	(0°-30°)	704.2	3.0	B2/1000		
BM	(30°-60°)	1328.4	5.7	B2/2500		
BH	(60°-80°)	557.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	64.6	0.3			G1/100
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°	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3
2.5°	3612.1	3610.9	3601.5	3594.3	3588.4	3586.1	3590.8	3573.0	3557.5	3538.6	3518.4
5°	3584.8	3583.7	3568.3	3554.0	3539.7	3535.0	3533.8	3501.8	3482.8	3454.3	3416.3
7.5°	3555.2	3549.2	3529.1	3505.3	3480.4	3468.5	3456.7	3415.1	3393.8	3365.3	3321.4
10°	3524.4	3517.2	3498.2	3474.5	3450.7	3432.9	3412.8	3372.5	3349.9	3328.6	3277.5
12.5°	3492.3	3486.3	3481.6	3471.0	3454.3	3438.9	3423.5	3389.0	3365.3	3340.4	3281.1
15°	3487.5	3485.2	3495.8	3503.0	3493.5	3484.0	3467.4	3437.7	3412.8	3387.9	3310.8
17.5°	3525.5	3524.4	3551.6	3570.6	3565.9	3549.2	3526.7	3493.5	3473.3	3451.9	3355.8
20°	3608.6	3614.5	3647.7	3672.7	3649.0	3625.2	3588.4	3542.2	3531.4	3521.9	3402.1
22.5°	3765.2	3771.1	3794.8	3804.4	3742.7	3708.3	3657.3	3597.9	3590.8	3597.9	3457.9
25°	4009.7	4003.7	4000.1	3964.5	3851.8	3798.4	3733.2	3671.5	3675.1	3707.1	3536.2
27.5°	4333.6	4301.6	4251.8	4145.0	3965.8	3906.4	3827.0	3770.0	3792.5	3854.2	3653.7
30°	4669.5	4633.9	4518.8	4344.3	4115.3	4050.1	3961.0	3896.9	3956.3	4053.5	3810.3
32.5°	4980.3	4975.6	4807.1	4582.8	4321.8	4264.8	4175.8	4103.5	4199.5	4347.8	4045.3
35°	5319.8	5330.4	5128.7	4859.3	4600.6	4541.3	4477.3	4422.6	4550.8	4754.9	4385.8
37.5°	5682.8	5704.2	5465.7	5161.9	4918.7	4893.7	4855.7	4832.0	5030.2	5312.6	4861.7
40°	6168.2	6146.8	5815.8	5503.7	5309.0	5307.9	5296.0	5324.5	5654.4	6041.2	5472.8
42.5°	6688.0	6625.0	6187.1	5870.3	5737.4	5777.7	5801.5	5917.8	6405.5	6926.4	6218.0
45°	7248.0	7106.8	6572.9	6258.4	6213.3	6298.7	6379.4	6632.2	7289.5	7933.9	7034.4
47.5°	7695.4	7558.9	6971.5	6665.3	6763.9	6893.3	7048.6	7448.6	8279.3	8974.6	7840.2
50°	8047.9	7958.9	7373.8	7140.0	7370.3	7569.6	7823.5	8373.0	9309.3	9988.0	8586.5
52.5°	8389.5	8323.1	7779.6	7626.6	8082.2	8357.5	8702.9	9365.0	10365.4	10984.8	9214.3
55°	8698.2	8650.7	8216.3	8232.9	8920.0	9278.4	9712.7	10494.7	11516.4	11873.6	9746.0
57.5°	9045.7	8985.3	8714.7	8993.6	9996.3	10461.4	11026.3	11764.3	12596.2	12663.8	10150.5
60°	9395.8	9343.6	9267.7	9871.7	11363.3	11852.2	12387.4	12995.0	13691.5	13277.4	10126.8
62.5°	9699.6	9705.6	9839.7	10793.8	12701.9	13267.9	13920.5	14521.0	14682.3	13384.2	9378.0
65°	10214.7	10308.4	10708.2	12099.1	14586.3	15343.3	16144.3	16048.2	14956.5	12386.2	7772.5
67.5°	10826.9	10991.9	11802.4	13838.7	16967.8	17972.9	18282.6	16393.5	13858.8	10068.7	5540.4
70°	10765.2	10991.9	12274.7	15135.7	18930.5	19604.5	18664.8	14836.6	11004.9	6577.6	2942.9
72.5°	9559.6	9883.5	11312.3	14541.1	18312.3	18252.9	16203.6	11060.8	6538.4	2641.5	1149.9
75°	7286.0	7613.5	8842.9	11487.9	14473.5	13975.1	11497.4	6110.0	2481.3	1049.0	725.1
77.5°	4191.2	4445.1	5394.5	7045.1	9182.2	8670.8	6399.6	2717.4	1208.0	731.0	566.0
80°	2340.1	2481.3	3058.0	3574.2	4499.8	4124.7	2863.3	1688.6	901.8	530.4	436.7
82.5°	1850.0	1975.7	2473.0	2254.6	2055.3	1896.2	1644.7	1503.4	720.3	334.6	261.1
85°	1616.2	1736.0	2093.3	1775.2	1403.8	1287.5	1336.2	1479.7	560.1	201.7	223.1
87.5°	1497.5	1657.7	1865.5	1368.2	1092.9	968.3	1233.0	1622.1	180.3	125.8	90.2
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°	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3	3543.3
2.5°	3500.6	3481.6	3450.7	3423.5	3380.8	3358.2	3333.3	3315.5	3301.3	3289.4	3308.3
5°	3392.6	3357.0	3291.8	3221.8	3138.7	3073.5	3018.8	2967.8	2932.2	2908.5	2925.1
7.5°	3290.5	3232.4	3130.3	3003.4	2861.0	2740.0	2640.2	2552.5	2491.9	2452.8	2468.2
10°	3232.4	3160.0	3002.3	2802.9	2592.8	2404.1	2247.5	2112.2	2018.5	1965.1	1973.4
12.5°	3218.2	3124.4	2906.1	2632.0	2344.8	2082.5	1861.9	1674.4	1542.6	1473.8	1476.2
15°	3228.8	3109.1	2815.9	2468.2	2105.1	1774.0	1498.7	1270.9	1117.8	1039.5	1038.3
17.5°	3246.6	3097.2	2720.9	2291.4	1861.9	1477.3	1170.1	946.9	811.7	748.8	744.0
20°	3265.7	3078.2	2614.2	2100.3	1609.1	1202.1	916.1	741.6	656.2	621.9	619.4
22.5°	3293.0	3061.6	2503.8	1898.6	1361.0	979.0	753.5	636.1	591.0	573.2	570.8
25°	3336.9	3053.2	2386.3	1688.6	1138.0	818.8	656.2	583.8	557.7	545.8	544.6
27.5°	3410.4	3065.1	2276.0	1484.5	956.5	710.8	601.6	557.7	538.7	528.0	526.8
30°	3505.3	3101.9	2159.7	1291.1	815.2	637.2	568.5	539.9	524.5	513.8	513.8
32.5°	3663.2	3163.6	2037.5	1123.7	714.3	586.3	543.5	524.5	511.5	503.1	502.0
35°	3895.7	3279.9	1923.6	984.9	642.0	549.4	522.1	507.9	498.4	493.7	493.7
37.5°	4234.0	3463.8	1822.7	885.3	598.1	524.5	502.0	491.2	485.3	485.3	485.3
40°	4688.4	3717.7	1740.9	818.8	573.2	506.7	486.5	478.2	474.6	475.9	475.9
42.5°	5249.7	4047.6	1686.2	772.5	561.3	496.0	475.9	468.7	465.1	464.0	465.1
45°	5889.3	4422.6	1680.3	738.1	549.4	488.9	468.7	461.6	454.5	449.7	449.7
47.5°	6511.1	4803.6	1729.0	726.2	536.3	480.6	462.8	455.6	445.0	434.3	434.3
50°	7060.5	5127.5	1794.3	731.0	531.6	468.7	453.3	449.7	433.1	421.3	420.0
52.5°	7497.2	5376.7	1847.7	745.2	536.3	460.4	441.4	442.6	424.8	411.7	410.6
55°	7847.3	5540.4	1833.3	759.4	547.1	455.6	430.8	433.1	418.9	405.8	405.8
57.5°	8000.4	5479.9	1675.5	747.6	555.4	456.8	422.5	431.9	420.0	408.2	408.2
60°	7671.6	4942.4	1380.1	695.4	544.6	453.3	418.9	436.7	435.5	423.6	422.5
62.5°	6677.2	3980.0	1070.3	618.3	507.9	435.5	409.4	435.5	448.6	445.0	443.8
65°	5146.5	2834.9	817.6	535.2	458.1	405.8	384.4	408.2	426.0	430.8	429.5
67.5°	3340.4	1737.3	630.1	456.8	402.2	371.4	352.4	363.1	366.6	366.6	364.3
70°	1642.3	935.1	502.0	384.4	345.3	334.6	324.0	318.0	312.1	307.3	307.3
72.5°	810.5	611.1	413.0	325.1	297.9	293.1	290.7	283.6	278.9	272.9	270.6
75°	599.2	497.2	351.3	274.2	256.4	251.5	256.4	250.4	249.2	244.5	242.0
77.5°	492.4	423.6	302.6	235.0	219.5	211.2	218.3	219.5	220.8	213.6	211.2
80°	399.9	358.3	252.8	194.6	180.3	174.4	179.2	188.6	191.1	180.3	175.6
82.5°	288.4	293.1	204.1	151.9	140.0	135.2	144.7	156.6	159.0	143.6	140.0
85°	242.0	244.5	156.6	108.0	96.2	89.0	104.4	116.3	124.6	109.1	105.6
87.5°	100.9	143.6	90.2	60.6	53.4	46.2	55.8	61.7	74.8	68.8	67.6
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)