

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: P269666

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-T3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30467.1 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

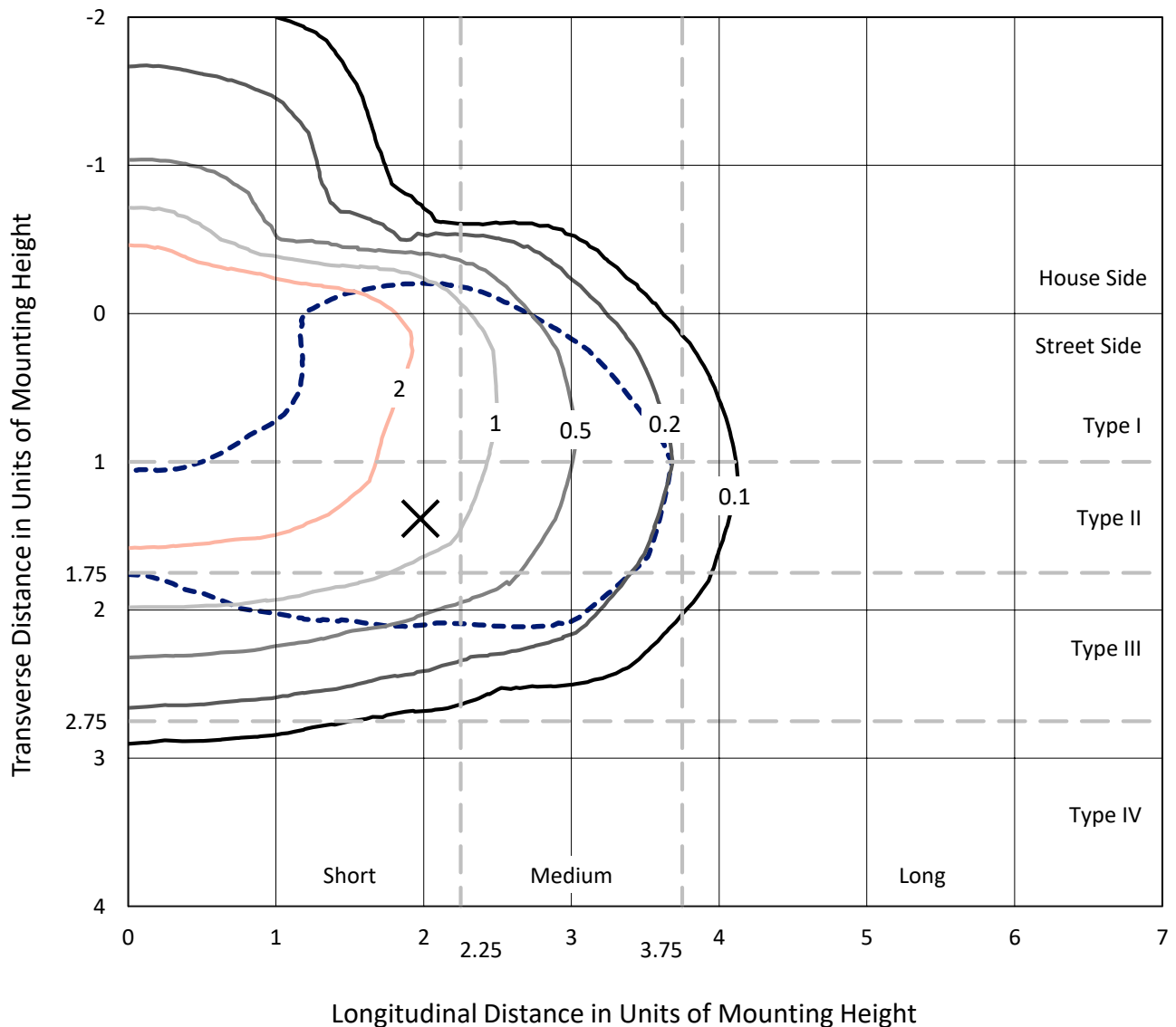
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

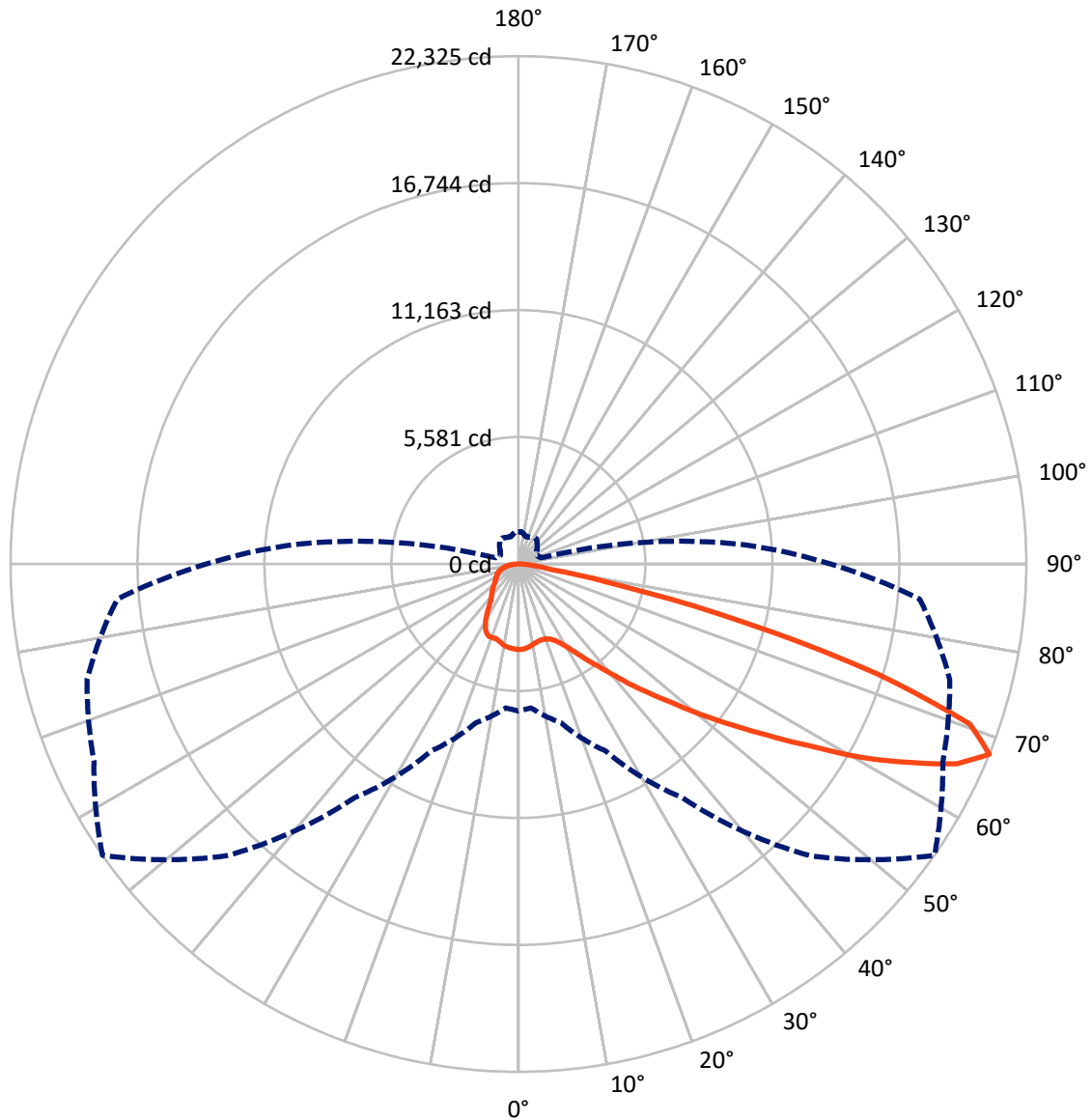
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6581.5	0.0	6581.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	23885.6	0.0	23885.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	30467.1	0.0	30467.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.7	1.2
10°-20°	993.1	3.3
20°-30°	1663.7	5.5
30°-40°	2735.8	9.0
40°-50°	4605.1	15.1
50°-60°	7248.1	23.8
60°-70°	8649.8	28.4
70°-80°	3714.4	12.2
80°-90°	506.4	1.7
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°	30467.1	100.0
0°-180°	30467.1	100.0



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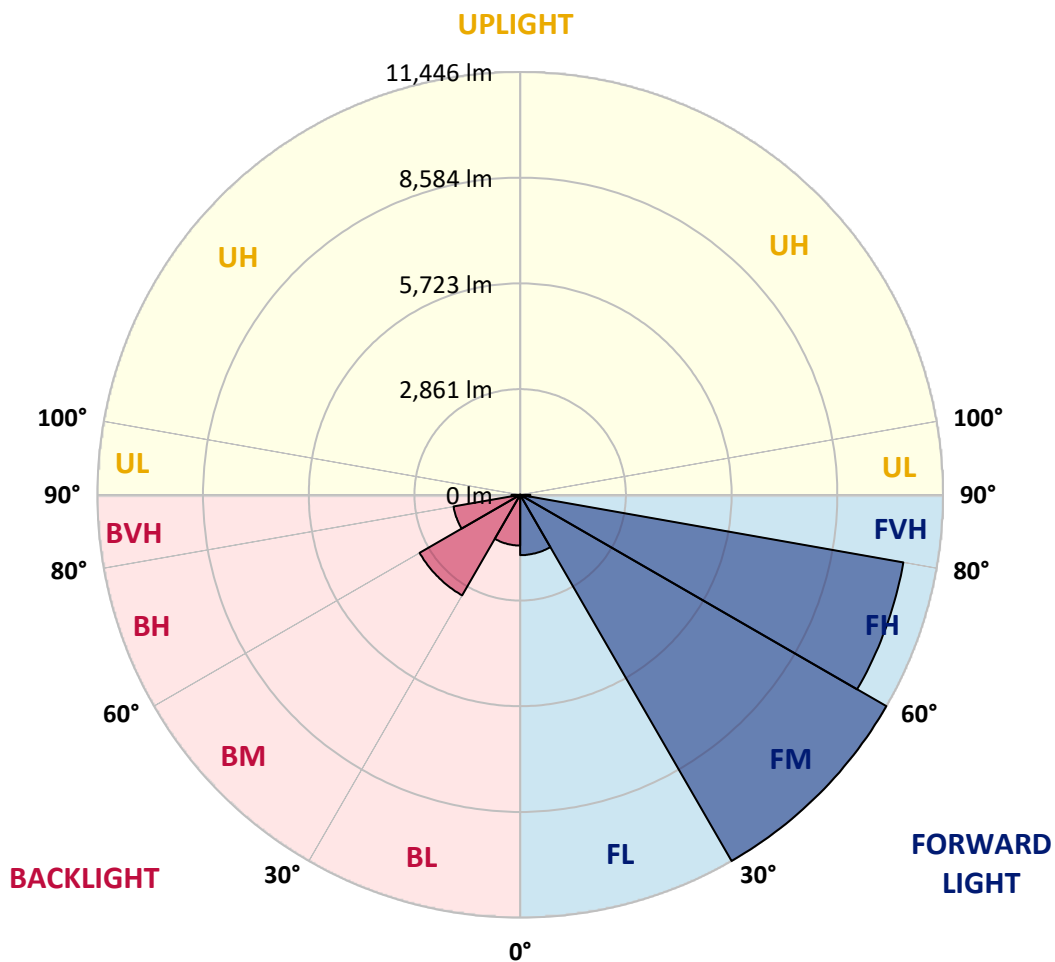
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1633.1	5.4			
FM (30°-60°)	11445.7	37.6			
FH (60°-80°)	10532.6	34.6			G4/12000
FVH (80°-90°)	274.1	0.9			G3/500
BL (0°-30°)	1374.4	4.5	B3/2500		
BM (30°-60°)	3143.3	10.3	B3/5000		
BH (60°-80°)	1831.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	232.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9
2.5°	3724.6	3726.0	3729.0	3740.7	3751.1	3748.1	3749.5	3743.6	3742.2	3733.4	3742.2
5°	3677.5	3682.0	3683.4	3702.5	3714.2	3717.1	3712.8	3705.4	3696.5	3687.7	3692.2
7.5°	3570.0	3581.8	3583.2	3609.7	3629.0	3653.9	3655.5	3656.9	3652.5	3646.6	3655.5
10°	3502.3	3505.2	3503.7	3523.0	3537.6	3565.6	3581.8	3609.7	3621.5	3624.5	3630.4
12.5°	3497.9	3494.9	3490.5	3490.5	3486.1	3497.9	3527.4	3567.1	3595.0	3603.9	3611.2
15°	3545.0	3543.5	3528.8	3506.8	3478.7	3470.0	3494.9	3539.1	3576.0	3595.0	3602.5
17.5°	3651.0	3642.2	3618.6	3568.5	3508.2	3484.6	3487.6	3524.4	3567.1	3592.1	3599.5
20°	3845.3	3845.3	3795.2	3700.9	3593.6	3537.6	3511.1	3533.3	3574.4	3608.3	3618.6
22.5°	4180.7	4183.6	4099.9	3945.3	3764.3	3645.1	3578.8	3574.4	3623.0	3661.3	3673.1
25°	4656.1	4644.2	4526.6	4305.8	4030.6	3833.4	3718.7	3692.2	3733.4	3776.0	3790.8
27.5°	5209.5	5166.7	5026.8	4760.6	4404.4	4116.0	3939.3	3896.8	3936.5	3985.1	3999.8
30°	5756.8	5712.6	5546.3	5254.9	4859.1	4494.2	4241.1	4171.9	4227.9	4297.0	4305.8
32.5°	6304.2	6304.2	6118.9	5778.8	5347.7	4946.0	4642.8	4560.4	4653.1	4737.0	4756.2
35°	6959.1	6962.0	6782.6	6373.4	5909.9	5484.5	5150.5	5090.2	5230.0	5288.9	5334.4
37.5°	7764.1	7780.2	7549.1	7054.7	6547.0	6099.8	5702.4	5619.9	5759.8	5920.1	6067.3
40°	8633.7	8654.4	8399.7	7790.6	7282.7	6814.8	6385.2	6236.6	6469.1	6775.1	6965.0
42.5°	9463.7	9569.6	9323.9	8697.0	8151.1	7666.9	7231.4	7015.0	7306.4	7768.5	7933.2
45°	10663.1	10739.5	10311.4	9743.2	9229.7	8688.1	8111.3	7883.3	8290.8	8873.5	8907.5
47.5°	11462.2	11404.7	11187.0	10833.6	10508.6	10002.3	9134.1	8883.9	9425.5	10111.2	9921.4
50°	11887.5	11905.1	11875.7	11896.3	11908.0	11590.1	10387.8	10044.9	10691.0	11519.4	11082.4
52.5°	12284.7	12167.1	12264.1	12746.8	13329.5	13211.8	11751.9	11394.5	12047.8	13082.2	12309.7
55°	12275.9	12096.3	12412.7	13264.8	14528.8	14664.2	13284.0	12871.9	13482.7	14758.4	13610.6
57.5°	11841.7	11850.6	12337.7	13453.1	15364.7	16029.8	15061.6	14443.5	15004.2	16456.6	14798.1
60°	11244.4	11325.2	12027.1	13422.2	16034.2	17149.7	17242.4	16137.3	16494.9	18000.2	15781.2
62.5°	10280.5	10365.8	11334.0	13101.4	15932.8	18228.3	19214.3	18059.2	18053.2	18936.2	16069.6
65°	8760.4	8735.3	9752.1	11902.2	15080.7	19026.0	21173.1	19720.6	19227.6	18951.0	15489.8
67.5°	6460.3	6348.4	7221.0	9064.8	12534.9	18132.7	22325.2	20585.9	19627.8	17704.5	13718.0
70°	3352.2	3240.4	3946.8	5293.3	8243.7	14152.2	21049.4	20138.6	18743.5	14840.9	10747.0
72.5°	1433.3	1414.2	1701.1	2322.2	3987.9	8162.8	16505.2	17430.8	16082.8	11057.3	7388.7
75°	963.9	958.0	1065.4	1265.5	1793.8	3312.5	10329.0	12373.1	11766.7	6856.0	4155.6
77.5°	756.5	749.0	812.2	909.4	1162.5	1306.8	4584.0	6642.6	6148.2	2984.3	1818.9
80°	591.5	585.6	625.4	678.4	835.9	824.0	1508.3	2643.0	2045.5	1143.5	884.4
82.5°	466.5	466.5	498.9	500.4	593.1	562.1	787.3	1164.1	1021.3	666.6	541.6
85°	426.8	426.8	460.7	373.8	387.0	354.7	488.6	690.2	647.5	273.8	235.4
87.5°	214.9	208.9	387.0	331.1	210.5	188.4	238.4	334.1	359.1	151.5	117.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9	3756.9
2.5°	3739.3	3737.8	3740.7	3742.2	3753.9	3770.1	3777.6	3787.9	3793.7	3790.8
5°	3695.1	3698.1	3709.8	3718.7	3739.3	3765.8	3780.4	3792.3	3802.5	3798.2
7.5°	3658.3	3665.8	3683.4	3690.6	3702.5	3709.8	3708.4	3712.8	3721.6	3711.3
10°	3637.7	3646.6	3659.9	3649.5	3621.5	3581.8	3545.0	3525.8	3531.7	3524.4
12.5°	3617.1	3629.0	3618.6	3570.0	3492.0	3440.6	3412.7	3415.5	3428.8	3431.7
15°	3605.3	3609.7	3565.6	3474.4	3395.0	3387.6	3402.3	3399.4	3400.9	3400.9
17.5°	3605.3	3593.6	3511.1	3419.9	3386.2	3372.9	3327.2	3269.8	3244.8	3236.1
20°	3624.5	3593.6	3493.5	3433.2	3359.7	3246.2	3125.7	3019.7	2972.6	2959.3
22.5°	3682.0	3629.0	3543.5	3439.2	3230.1	3040.3	2849.0	2722.5	2637.1	2622.3
25°	3798.2	3739.3	3642.2	3361.1	3024.1	2753.3	2535.6	2394.3	2309.0	2297.1
27.5°	4001.2	3963.0	3695.1	3189.0	2750.4	2460.5	2258.9	2150.0	2086.8	2082.4
30°	4307.4	4288.1	3668.7	2934.4	2413.3	2176.5	2079.3	2016.1	1968.9	1967.5
32.5°	4796.0	4641.4	3581.8	2623.8	2105.8	1974.8	1935.0	1897.0	1860.1	1860.1
35°	5424.2	4926.8	3417.1	2291.2	1918.9	1863.1	1813.0	1752.7	1704.1	1701.1
37.5°	6162.9	5103.5	3121.3	2023.4	1830.7	1787.9	1714.3	1624.7	1539.2	1524.6
40°	6909.0	5156.5	2704.7	1858.7	1774.7	1712.9	1623.1	1517.1	1434.9	1430.5
42.5°	7593.4	5054.9	2263.3	1745.2	1718.7	1636.4	1542.2	1448.1	1383.3	1381.9
45°	8167.2	4791.5	1892.5	1637.9	1660.0	1567.3	1483.3	1406.8	1356.8	1346.5
47.5°	8707.4	4419.1	1632.0	1524.6	1601.0	1528.9	1458.3	1386.3	1337.7	1330.3
50°	9334.2	4017.4	1449.5	1414.2	1549.5	1515.7	1478.9	1404.0	1322.9	1314.1
52.5°	10093.5	3670.1	1306.8	1317.0	1509.8	1533.3	1531.9	1453.8	1312.7	1300.8
55°	10941.1	3284.6	1199.3	1237.5	1493.6	1565.7	1545.2	1501.0	1321.4	1303.8
57.5°	11775.5	2834.2	1124.3	1177.3	1470.0	1562.8	1481.8	1418.7	1342.1	1317.0
60°	12400.9	2229.5	1066.8	1124.3	1418.7	1514.3	1412.8	1328.9	1337.7	1318.5
62.5°	12442.2	1723.2	997.7	1078.7	1340.6	1465.7	1367.1	1289.1	1356.8	1339.2
65°	11710.8	1302.4	931.5	1024.2	1256.6	1434.9	1322.9	1267.0	1396.5	1377.5
67.5°	9859.5	1047.8	875.6	968.4	1172.8	1370.0	1283.1	1246.4	1431.9	1398.0
70°	7118.0	893.3	821.1	900.6	1097.8	1296.4	1247.8	1209.7	1336.1	1283.1
72.5°	4382.3	774.1	759.3	810.8	1040.3	1220.0	1194.9	1140.5	1203.8	1161.1
75°	2188.2	671.0	690.2	722.5	959.5	1133.1	1106.6	1052.2	1061.0	1052.2
77.5°	1047.8	573.8	609.2	634.3	854.9	1034.5	1006.6	950.6	940.3	941.9
80°	663.7	479.8	513.7	531.3	763.7	919.8	891.7	835.9	953.6	884.4
82.5°	414.9	390.0	398.8	431.1	665.1	800.5	763.7	713.8	859.4	679.8
85°	229.5	272.2	284.0	312.0	512.2	669.5	632.8	569.4	510.6	501.9
87.5°	136.8	161.9	166.2	186.8	344.3	484.1	428.2	406.2	337.0	335.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)