

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: P451166

Luminaire Tested: **GALN-SA2A-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6705 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

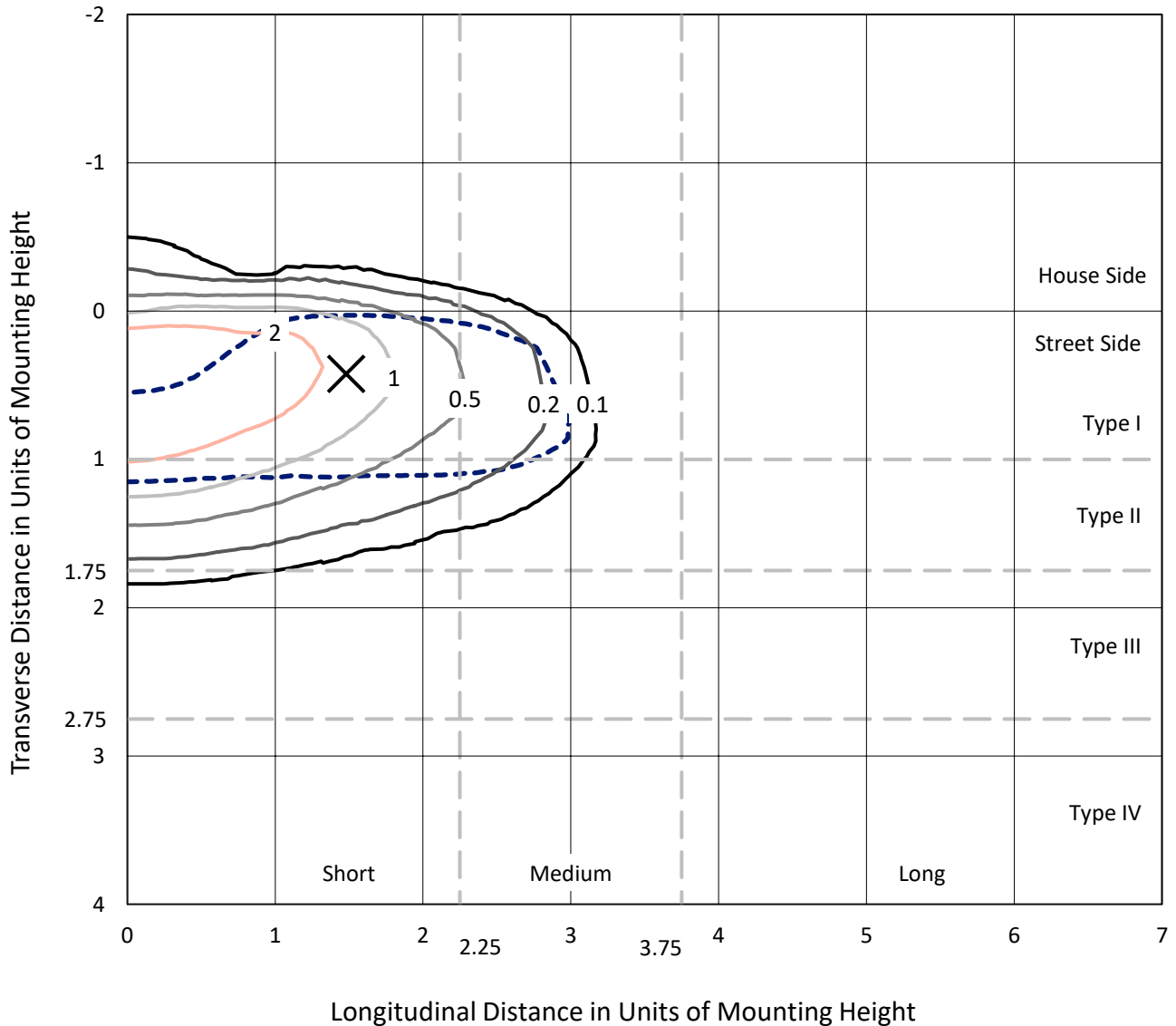
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

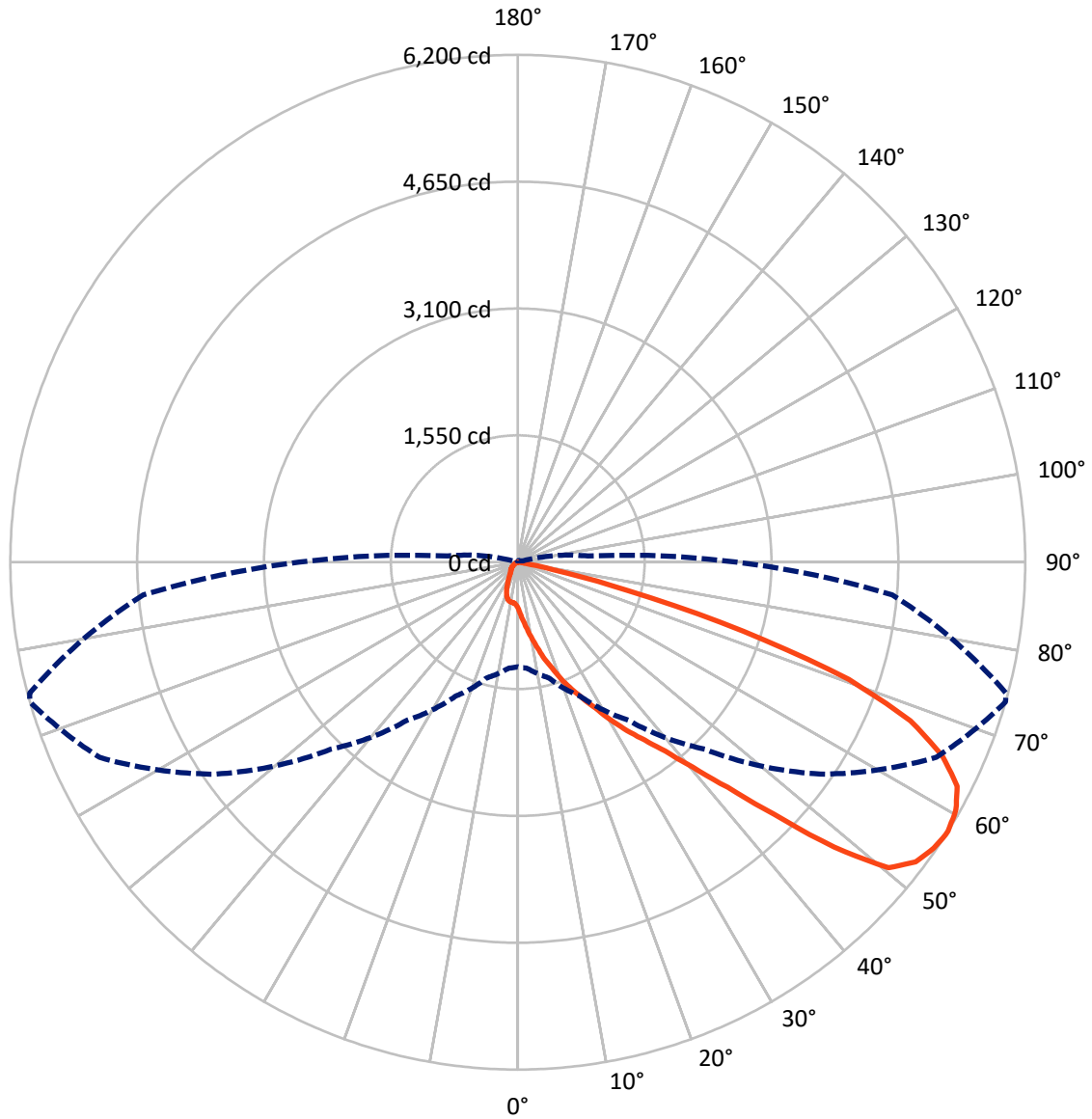
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.7	0.0	386.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	6318.3	0.0	6318.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	6705.0	0.0	6705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.0
10°-20°	267.2	4.0
20°-30°	571.6	8.5
30°-40°	1050.7	15.7
40°-50°	1610.7	24.0
50°-60°	1703.9	25.4
60°-70°	1112.7	16.6
70°-80°	304.0	4.5
80°-90°	16.4	0.2
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°	6705.0	100.0
0°-180°	6705.0	100.0

Coefficient of Utilization



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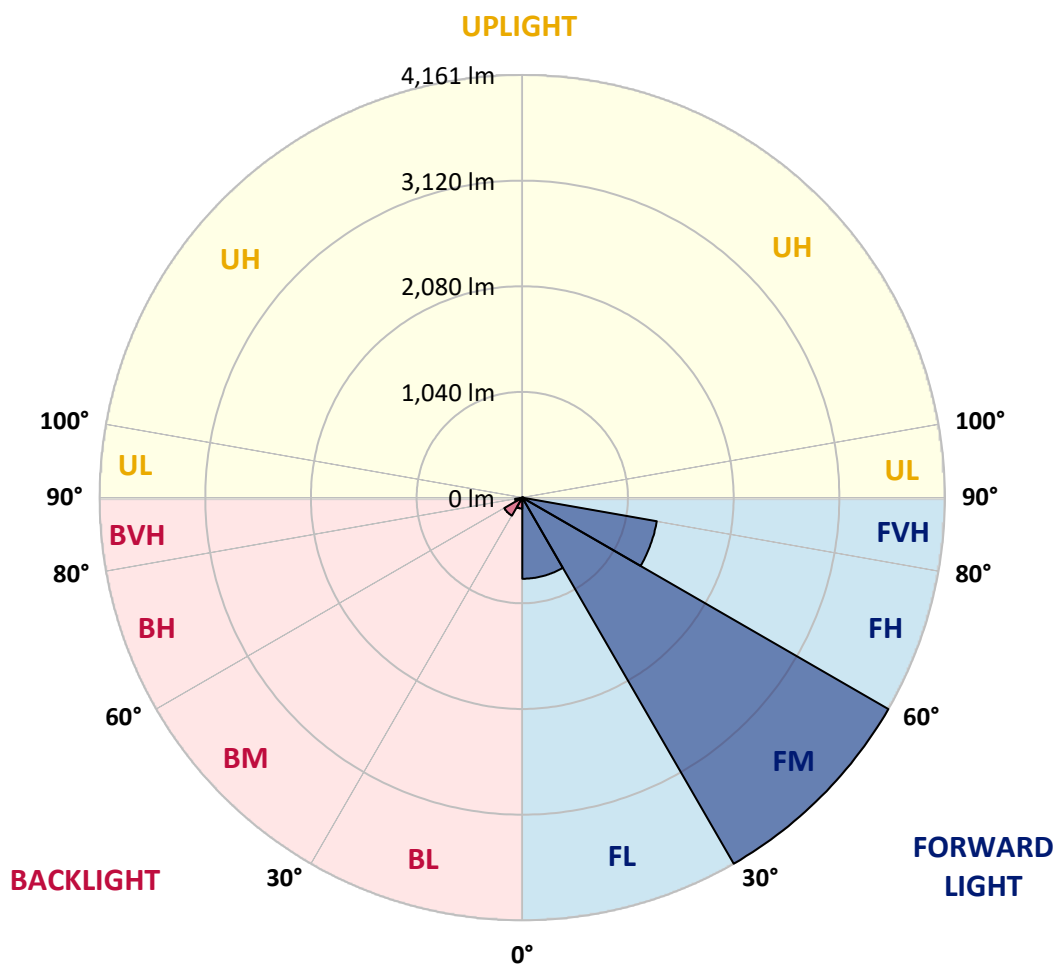
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.6	11.9			
FM	(30°-60°)	4160.6	62.1			
FH	(60°-80°)	1344.1	20.0			G1/1800
FVH	(80°-90°)	15.0	0.2			G1/100
BL	(0°-30°)	108.0	1.6	B0/110		
BM	(30°-60°)	204.7	3.1	B0/220		
BH	(60°-80°)	72.6	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	821.7	814.3	799.5	794.4	772.6	738.8	709.2	669.4	637.9	634.7	596.7
5°	1100.4	1083.7	1076.8	1043.4	991.1	942.1	857.8	793.9	720.3	714.8	638.4
7.5°	1368.9	1345.7	1338.8	1307.3	1246.2	1168.9	1059.6	943.5	826.8	816.1	694.4
10°	1563.3	1566.6	1554.1	1533.2	1483.7	1405.0	1270.3	1111.5	945.3	931.9	757.4
12.5°	1702.7	1702.2	1704.5	1704.0	1677.7	1617.9	1476.3	1293.4	1075.9	1049.5	829.6
15°	1793.4	1794.8	1801.7	1825.8	1828.6	1791.5	1673.5	1467.5	1227.2	1194.4	907.8
17.5°	1885.1	1894.8	1905.9	1928.6	1948.9	1934.1	1850.8	1649.0	1364.3	1339.7	991.6
20°	2036.4	2049.9	2043.4	2057.3	2067.9	2069.3	2005.0	1816.5	1530.4	1489.2	1087.4
22.5°	2278.5	2278.1	2261.4	2236.4	2215.6	2214.7	2156.3	1988.8	1681.4	1641.6	1183.7
25°	2584.5	2585.9	2553.5	2482.2	2430.4	2367.0	2299.8	2139.7	1842.9	1793.9	1285.1
27.5°	2935.4	2926.6	2877.6	2779.4	2676.7	2568.3	2471.6	2315.1	2014.2	1973.5	1401.3
30°	3250.7	3247.5	3190.1	3070.2	2935.0	2826.2	2685.9	2535.0	2236.0	2186.0	1531.4
32.5°	3544.2	3548.8	3469.2	3345.1	3214.6	3089.1	2941.0	2745.2	2453.5	2382.7	1673.0
35°	3773.3	3778.0	3695.6	3592.3	3458.1	3353.9	3212.7	2969.2	2668.3	2608.6	1836.0
37.5°	3895.6	3901.6	3853.9	3776.1	3692.3	3640.0	3508.6	3257.6	2929.4	2893.3	2028.6
40°	3918.7	3925.7	3904.8	3884.0	3879.4	3916.9	3878.4	3597.4	3291.4	3235.0	2315.6
42.5°	3849.3	3858.5	3867.8	3914.1	4008.5	4146.0	4279.8	4058.5	3757.6	3681.7	2666.5
45°	3666.9	3665.9	3702.5	3822.4	4034.0	4327.5	4699.2	4635.8	4392.8	4302.5	3162.3
47.5°	3354.9	3350.2	3429.4	3600.2	3929.8	4360.8	5041.3	5336.7	5203.3	5120.0	3695.1
50°	2879.4	2902.1	3026.6	3265.1	3671.0	4259.9	5146.9	5796.4	5868.6	5780.2	4125.6
52.5°	2322.5	2321.6	2517.0	2840.5	3287.7	4037.7	5073.3	5879.7	6084.8	6017.2	4337.7
55°	1718.9	1730.9	1934.1	2260.5	2790.1	3632.2	4833.0	5794.0	6167.2	6119.5	4477.5
57°	1278.6	1299.9	1462.9	1808.2	2356.8	3230.8	4513.1	5640.8	6199.6	6173.6	4593.7
57.5°	1193.4	1194.4	1353.1	1667.0	2229.9	3076.6	4421.5	5576.9	6198.6	6184.3	4612.6
60°	734.7	757.8	867.5	1126.8	1632.3	2401.2	3807.1	5209.8	6150.5	6171.3	4693.7
62.5°	439.8	449.5	520.8	679.1	1052.2	1752.7	3115.5	4739.9	6025.0	6088.5	4688.1
65°	282.9	285.2	317.6	411.1	657.8	1184.6	2400.8	4119.2	5700.5	5817.2	4504.8
67.5°	218.5	222.2	235.2	269.9	381.5	737.9	1698.0	3456.7	5175.6	5326.0	4060.4
70°	194.0	195.8	200.4	211.6	252.3	416.6	1056.4	2700.3	4291.8	4334.4	3177.6
72.5°	158.3	163.4	177.8	181.5	200.0	260.2	587.9	1812.4	2883.6	2894.2	1777.7
75°	122.7	123.6	144.9	155.5	168.5	179.2	262.5	913.8	1385.1	1311.0	685.1
77.5°	91.7	95.8	105.5	119.0	137.5	128.2	117.6	344.4	430.1	422.2	199.1
80°	58.8	61.1	73.6	89.3	106.9	83.8	66.2	100.9	94.4	97.2	47.7
82.5°	29.6	30.1	47.2	72.7	68.1	42.1	41.7	41.2	35.2	34.7	22.2
85°	3.2	6.9	30.6	41.7	30.6	13.9	19.4	19.0	18.5	19.0	13.0
87.5°	0.5	0.5	5.1	6.0	4.2	4.6	5.6	6.0	7.4	6.9	5.6
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°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	578.2	559.7	525.4	492.6	468.0	452.3	431.9	424.5	413.9	412.5	407.4
5°	603.2	568.0	508.3	461.1	423.1	394.4	369.4	348.6	331.9	328.2	330.1
7.5°	638.8	586.5	503.2	438.9	386.1	337.0	297.2	272.7	255.1	248.6	249.5
10°	679.1	611.1	502.3	415.2	334.7	274.5	231.0	209.2	199.1	195.4	191.2
12.5°	726.8	639.3	500.0	378.7	278.2	219.0	187.9	175.0	165.3	162.5	162.5
15°	780.5	669.4	488.9	333.3	225.9	181.0	160.2	150.0	146.7	144.0	144.0
17.5°	836.5	699.0	465.7	277.3	187.5	155.1	142.1	136.1	131.5	128.2	128.2
20°	900.4	728.2	428.7	227.8	158.3	138.4	128.2	121.3	117.6	114.8	113.9
22.5°	961.0	751.8	381.5	187.0	138.0	124.5	115.3	107.9	104.2	102.8	102.8
25°	1024.0	766.2	324.5	154.6	125.9	113.0	102.8	96.8	93.5	92.6	92.1
27.5°	1085.1	774.5	274.5	135.2	114.8	102.3	92.6	88.0	84.7	83.8	84.3
30°	1159.2	775.9	225.9	121.3	105.1	92.1	83.3	79.2	77.3	76.4	75.9
32.5°	1234.2	774.0	189.8	113.0	95.8	83.3	75.9	72.7	71.3	69.9	69.9
35°	1318.4	764.3	161.6	104.6	87.0	75.9	69.4	66.7	64.8	63.4	63.0
37.5°	1423.0	759.2	145.4	95.4	79.2	69.0	63.0	60.2	58.8	56.9	56.5
40°	1587.9	781.9	140.3	87.0	71.3	62.5	56.9	53.7	51.8	50.0	49.5
42.5°	1793.4	821.7	131.9	78.7	64.3	56.5	50.9	47.2	44.0	41.7	40.7
45°	2059.6	874.0	119.0	69.9	58.3	50.0	44.9	40.3	36.1	34.3	33.8
47.5°	2338.7	924.5	107.4	63.0	51.8	44.4	38.9	33.8	30.1	28.7	28.2
50°	2510.0	934.7	100.0	55.1	45.4	38.4	32.9	28.2	25.9	24.5	24.5
52.5°	2588.2	918.5	89.8	48.1	39.3	33.8	28.2	24.5	23.1	22.2	21.8
55°	2642.9	893.5	76.4	41.7	33.8	28.7	25.0	22.2	20.4	19.4	19.0
57°	2674.8	859.7	66.2	36.6	29.2	25.0	22.2	19.9	18.1	16.2	16.2
57.5°	2676.2	846.7	63.4	36.1	27.8	24.1	21.8	19.4	17.1	15.3	14.8
60°	2635.0	757.8	50.9	30.6	22.2	20.4	18.1	15.3	12.0	10.2	9.7
62.5°	2502.6	644.9	42.1	25.9	18.1	15.7	13.0	11.6	8.3	6.0	6.0
65°	2302.2	523.1	36.1	20.8	14.8	11.6	8.8	8.3	5.1	2.8	2.3
67.5°	2012.4	407.4	30.6	17.1	12.5	8.3	6.0	5.6	2.8	0.9	0.0
70°	1533.2	277.8	25.5	13.9	9.3	6.0	4.2	3.2	1.9	0.5	0.0
72.5°	883.7	152.8	21.3	10.6	6.9	4.6	3.2	1.9	1.9	0.0	0.0
75°	315.7	65.7	16.2	7.9	5.6	3.7	2.3	0.9	1.4	0.5	0.0
77.5°	100.5	35.2	10.6	6.0	4.6	2.8	1.9	0.9	0.9	0.5	0.0
80°	29.6	18.5	6.5	5.1	3.2	2.3	1.4	0.5	0.9	0.5	0.0
82.5°	16.2	9.3	5.1	3.7	3.2	1.9	1.4	0.5	0.5	0.5	0.0
85°	8.3	5.6	4.2	3.7	3.2	1.9	1.4	0.5	0.0	0.5	0.5
87.5°	4.6	4.2	4.2	3.7	3.2	2.3	1.4	0.5	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)