

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: P534057

Luminaire Tested: **GALN-SA9C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34721 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

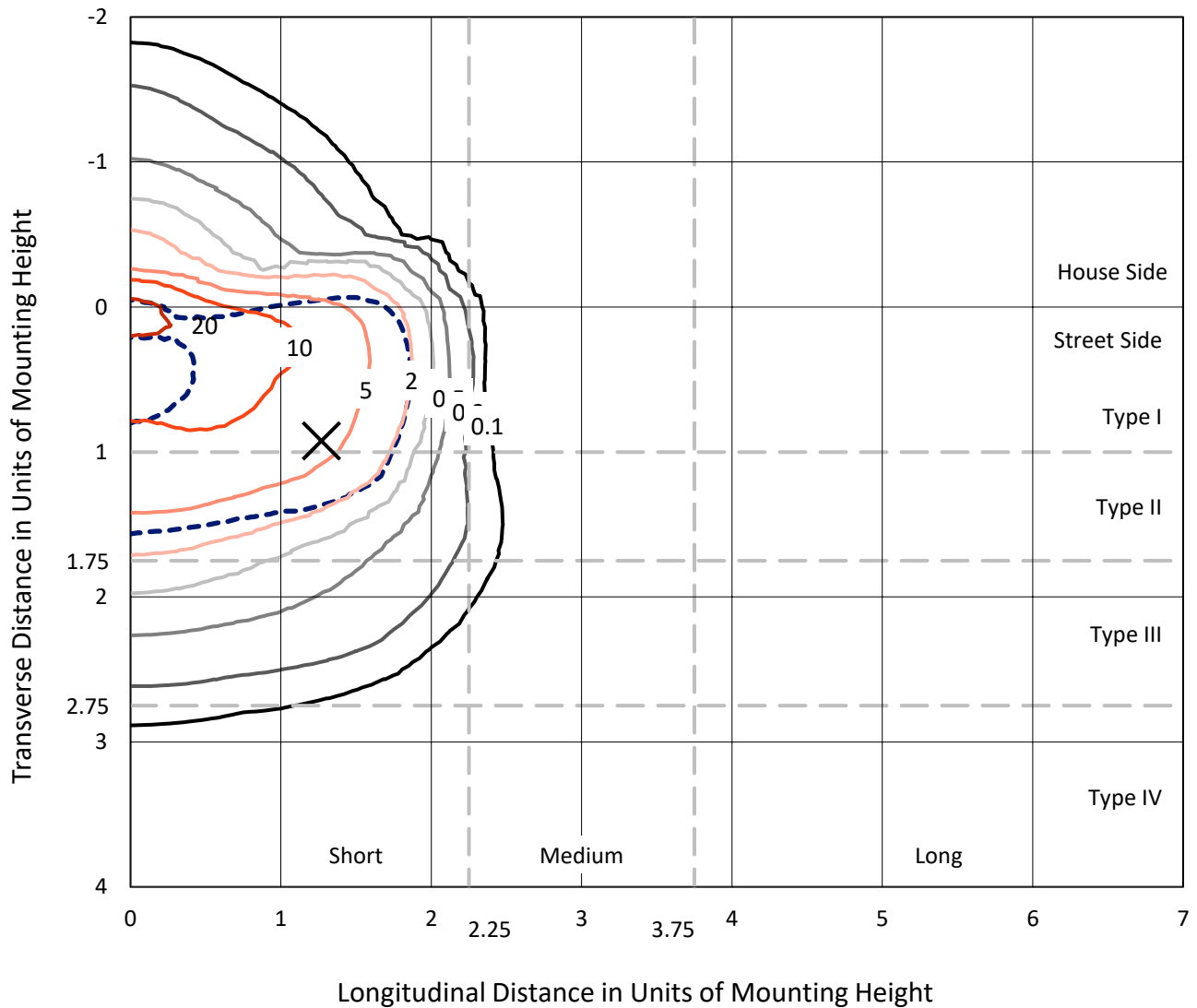
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

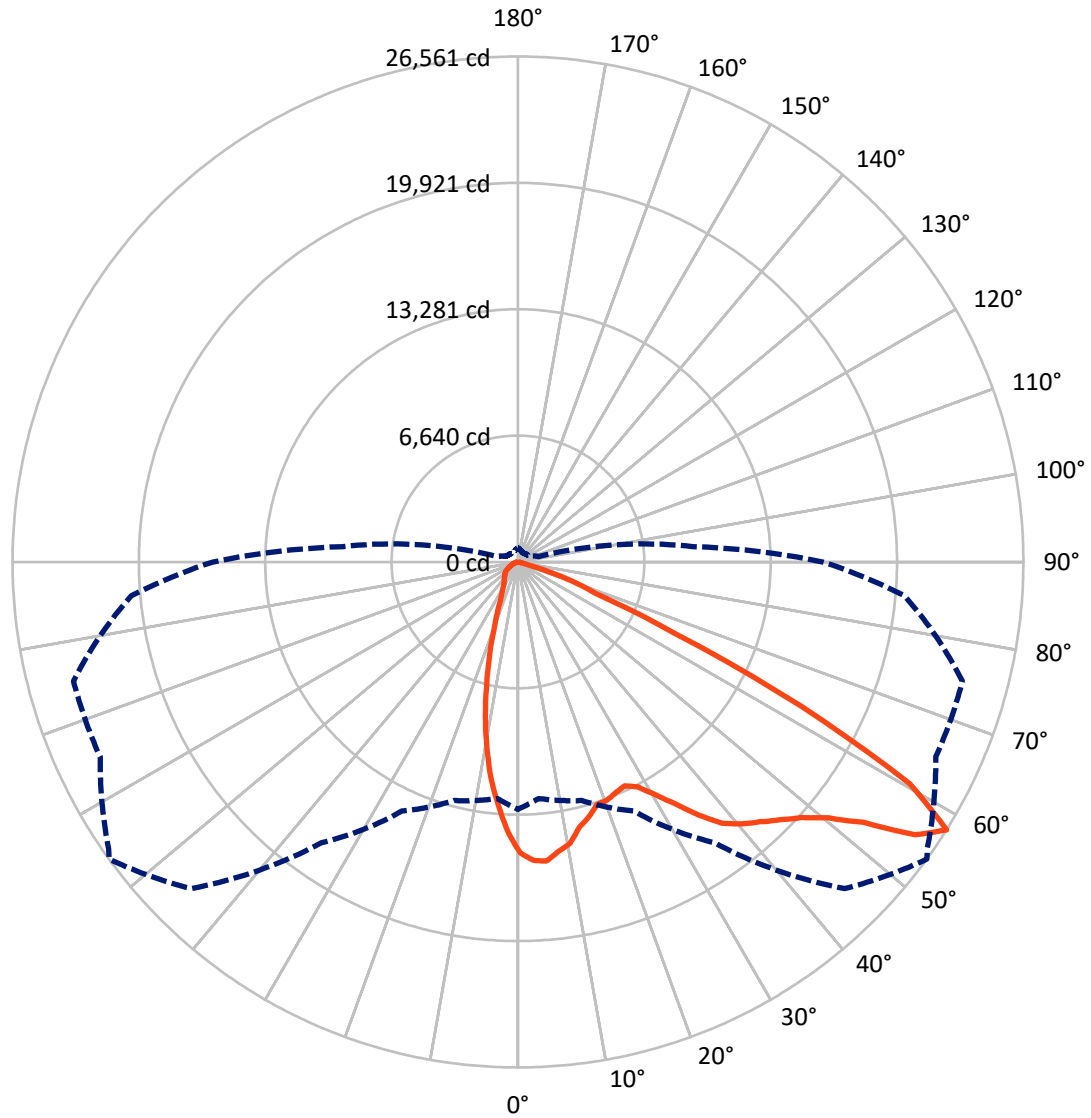
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4906.7	0.0	4906.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29814.3	0.0	29814.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	34721.0	0.0	34721.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1279.9	3.7
10°-20°	2732.6	7.9
20°-30°	3621.2	10.4
30°-40°	5262.7	15.2
40°-50°	7803.9	22.5
50°-60°	9758.4	28.1
60°-70°	3849.2	11.1
70°-80°	383.3	1.1
80°-90°	29.8	0.1
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°	34721.0	100.0
0°-180°	34721.0	100.0

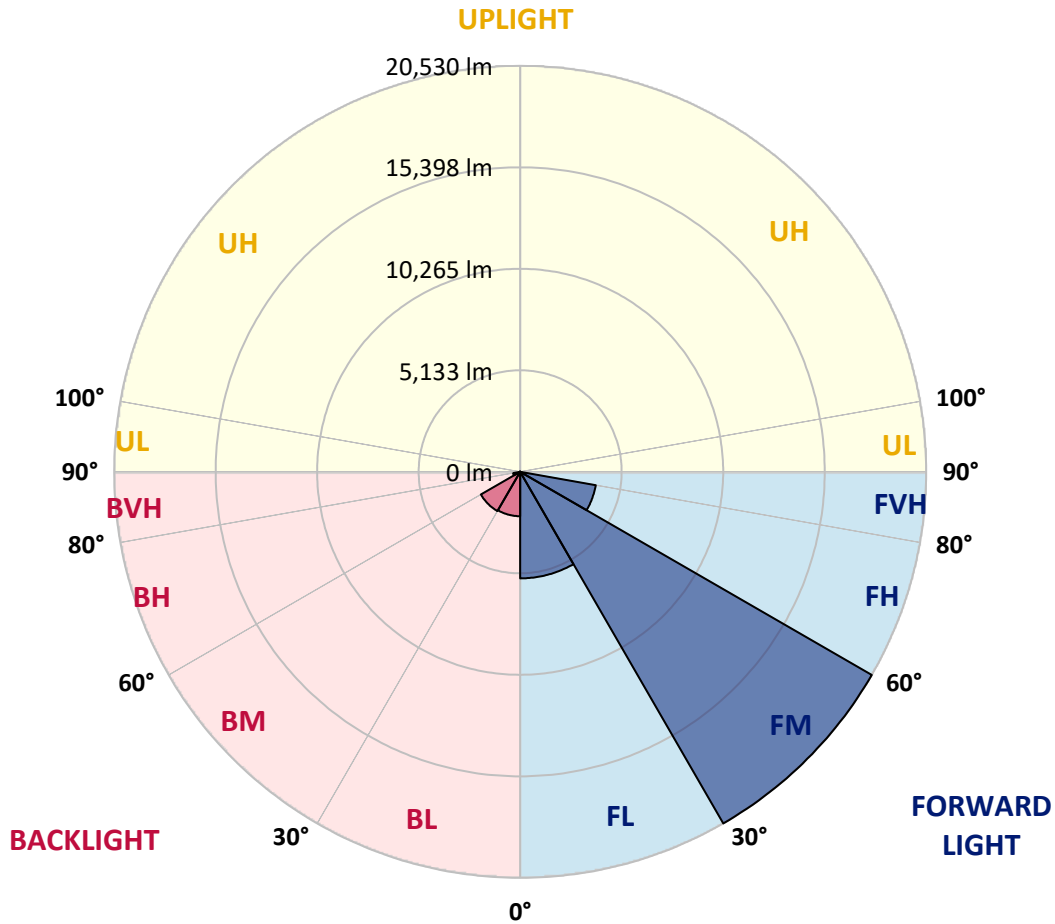


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5389.7	15.5			
FM (30°-60°)	20530.5	59.1			
FH (60°-80°)	3880.7	11.2			G2/5000
FVH (80°-90°)	13.5	0.0			G1/100
BL (0°-30°)	2244.1	6.5	B3/2500		
BM (30°-60°)	2294.5	6.6	B2/2500		
BH (60°-80°)	351.8	1.0	B1/500		G1/500
BVH (80°-90°)	16.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1
2.5°	16186.0	16018.2	16031.1	15973.0	15895.5	15953.6	15701.8	15759.9	15753.5	15411.3	15185.3
5°	15779.3	15960.1	15772.8	15927.8	15779.3	15940.7	15785.7	15669.5	15482.3	15230.5	14810.8
7.5°	15088.5	14914.1	14965.8	15159.5	15191.8	15553.3	15359.6	15508.1	15430.7	14933.5	14358.9
10°	13700.4	13661.6	13919.9	14178.1	14494.5	14881.9	15030.4	14946.4	14888.3	14701.1	13932.8
12.5°	12635.1	12744.8	12738.4	13164.5	13700.4	13919.9	14307.2	14294.3	14617.2	14268.5	13532.5
15°	11621.4	11679.5	11950.7	12215.4	12809.4	13435.6	13913.4	13978.0	14365.4	14120.0	13222.6
17.5°	11001.6	10917.7	11130.7	11447.1	12054.0	12873.9	13403.4	13558.3	14087.7	14036.1	12867.5
20°	10388.3	10388.3	10562.6	10937.0	11492.3	12415.5	13358.2	13313.0	14087.7	13939.2	12486.6
22.5°	10181.6	10284.9	10330.1	10614.2	11272.8	12066.9	13164.5	13248.4	14197.5	13894.0	12318.7
25°	10465.7	10330.1	10343.1	10569.0	11188.8	11899.0	13022.4	13209.7	14397.6	14120.0	12183.1
27.5°	10510.9	10646.5	10685.2	10840.2	11253.4	11950.7	13377.5	13758.5	14894.8	14649.4	12221.9
30°	10904.8	11040.3	11033.9	11298.6	11582.7	12370.3	14171.7	14249.1	15921.3	15314.4	12460.7
32.5°	11382.5	11524.6	11569.8	11879.7	12105.6	13138.7	15140.1	15340.3	16909.2	16360.4	13087.0
35°	11976.5	11924.9	12131.5	12441.4	12925.6	14262.1	16321.6	16657.4	17974.4	17716.2	13732.6
37.5°	12719.0	12654.4	12854.6	13358.2	14016.7	15592.1	17412.7	17632.3	18749.2	18975.2	14927.1
40°	13242.0	13267.8	13874.7	14552.6	15249.9	16857.5	18103.6	18316.6	19291.5	20150.2	15830.9
42.5°	14113.6	14275.0	15004.5	15830.9	16560.5	17806.6	18665.3	18871.9	19543.3	21092.9	17051.2
45°	15379.0	15308.0	16115.0	17038.3	17845.3	18794.4	19330.3	19259.3	19691.8	22029.0	17819.5
47.5°	17006.0	17018.9	17554.8	18342.5	19181.8	19653.1	20072.8	19821.0	20001.7	23016.8	18846.1
50°	18116.5	18213.3	18645.9	19453.0	19872.6	20595.7	21131.6	20976.6	20918.5	23610.8	19491.7
52.5°	18400.6	18691.1	18923.5	19930.7	20912.1	22054.9	22739.2	23068.5	22035.5	23811.0	20311.6
55°	16257.1	16515.3	17335.3	18716.9	21305.9	24366.2	25308.9	25315.3	23494.6	24702.0	20886.3
57.5°	12996.6	12473.6	12977.2	14442.8	18013.2	24269.4	26561.4	26257.9	24224.2	24179.0	20389.1
60°	8987.2	8858.1	8890.4	9471.4	12467.2	19304.5	23668.9	24062.8	22306.7	20957.3	16140.8
62.5°	7121.3	7011.6	6869.5	6805.0	7741.2	12028.2	16696.1	17251.3	15598.5	13590.6	9568.3
65°	5578.3	5513.7	5533.1	5791.3	5784.9	6824.4	9129.3	8903.3	7127.8	5268.4	3008.7
67.5°	3764.0	3860.9	3938.4	4719.6	5119.9	4751.9	4409.7	4280.6	2317.8	974.9	665.0
70°	2117.7	2130.6	2214.5	2950.5	3886.7	3686.6	3040.9	3040.9	1155.7	355.1	380.9
72.5°	1155.7	1116.9	1039.5	1271.9	1730.3	1756.1	1355.8	1181.5	342.2	232.4	213.1
75°	561.7	555.2	477.8	393.8	374.5	309.9	238.9	219.5	155.0	148.5	129.1
77.5°	116.2	109.8	58.1	58.1	64.6	71.0	90.4	90.4	109.8	109.8	90.4
80°	0.0	0.0	6.5	25.8	45.2	64.6	77.5	77.5	90.4	90.4	71.0
82.5°	0.0	0.0	6.5	19.4	38.7	58.1	71.0	77.5	90.4	96.8	77.5
85°	0.0	0.0	0.0	12.9	32.3	45.2	38.7	38.7	32.3	25.8	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1	15295.1
2.5°	15069.1	15056.2	14759.2	14591.3	14287.9	14023.2	13810.1	13655.2	13655.2	13558.3	13467.9
5°	14643.0	14533.2	13900.5	13493.7	12919.1	12493.0	12202.5	11976.5	11621.4	11718.3	11337.3
7.5°	14113.6	13835.9	12996.6	12376.8	11582.7	10975.8	10356.0	9807.2	9277.8	9038.9	9168.0
10°	13545.4	13061.2	11931.3	10950.0	9962.1	8851.6	8128.5	7250.5	6708.1	6675.9	6533.8
12.5°	12945.0	12396.2	11021.0	9665.1	8367.4	7031.0	5926.9	5107.0	4739.0	4332.2	4409.7
15°	12493.0	11679.5	10007.3	8373.9	6650.0	5300.7	4190.2	3557.4	3208.8	3112.0	3079.7
17.5°	12002.3	11130.7	8974.3	6998.7	5216.7	3815.7	3015.1	2711.7	2576.1	2576.1	2556.7
20°	11492.3	10510.9	7947.8	5720.3	3912.5	2847.2	2414.7	2317.8	2311.4	2304.9	2304.9
22.5°	11156.6	9800.7	7018.0	4545.3	2950.5	2279.1	2098.3	2059.6	2085.4	2162.9	2162.9
25°	10801.5	9116.4	5991.5	3505.8	2285.5	1956.3	1853.0	1878.8	1943.4	2014.4	1988.6
27.5°	10439.9	8670.9	5023.0	2750.4	1872.3	1710.9	1672.2	1730.3	1801.3	1865.9	1846.5
30°	10356.0	8193.1	4106.2	2085.4	1607.6	1491.4	1517.2	1568.9	1639.9	1665.7	1691.6
32.5°	10485.1	7818.6	3363.8	1710.9	1401.0	1368.7	1368.7	1394.6	1439.8	1497.9	1478.5
35°	10853.1	7605.6	2660.0	1485.0	1284.8	1252.5	1246.1	1271.9	1297.7	1317.1	1297.7
37.5°	11414.8	7437.7	2175.8	1317.1	1207.3	1155.7	1142.8	1136.3	1162.1	1168.6	1181.5
40°	12131.5	7528.1	1846.5	1213.8	1129.9	1071.8	1033.0	1033.0	1033.0	1052.4	1058.8
42.5°	12906.2	7650.8	1594.7	1155.7	1058.8	987.8	949.1	936.2	949.1	974.9	968.5
45°	13719.7	7889.6	1433.3	1065.3	994.3	903.9	852.2	839.3	871.6	923.3	916.8
47.5°	14481.6	8231.8	1310.6	1007.2	929.7	845.8	781.2	768.3	826.4	897.4	903.9
50°	15243.4	8825.8	1265.4	962.0	884.5	787.7	729.6	716.7	781.2	871.6	891.0
52.5°	16121.5	9465.0	1233.2	903.9	832.9	742.5	677.9	665.0	736.0	852.2	858.7
55°	16696.1	10007.3	1207.3	800.6	736.0	671.5	619.8	613.4	690.8	794.1	820.0
57.5°	16024.6	9251.9	1116.9	697.3	626.3	594.0	548.8	548.8	613.4	710.2	729.6
60°	12150.8	6088.3	794.1	561.7	529.4	510.1	490.7	490.7	542.3	613.4	619.8
62.5°	7114.9	3279.8	510.1	451.9	451.9	432.6	400.3	400.3	451.9	490.7	497.1
65°	2111.2	1052.4	413.2	387.4	380.9	348.6	316.4	309.9	348.6	368.0	361.6
67.5°	606.9	484.2	342.2	322.8	316.4	264.7	245.3	238.9	245.3	232.4	226.0
70°	361.6	329.3	264.7	271.2	238.9	193.7	174.3	167.9	155.0	135.6	122.7
72.5°	200.1	200.1	193.7	206.6	167.9	129.1	109.8	90.4	71.0	58.1	51.7
75°	122.7	129.1	135.6	142.0	109.8	83.9	71.0	45.2	25.8	12.9	12.9
77.5°	83.9	90.4	96.8	103.3	90.4	77.5	58.1	32.3	6.5	0.0	0.0
80°	64.6	71.0	83.9	90.4	96.8	103.3	77.5	32.3	6.5	0.0	0.0
82.5°	71.0	77.5	96.8	90.4	90.4	90.4	71.0	32.3	6.5	0.0	0.0
85°	12.9	19.4	32.3	32.3	45.2	58.1	45.2	12.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)