

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: P299135

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299135
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: GLNA-AF-07-LED-E1-SL2-7050
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41103 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

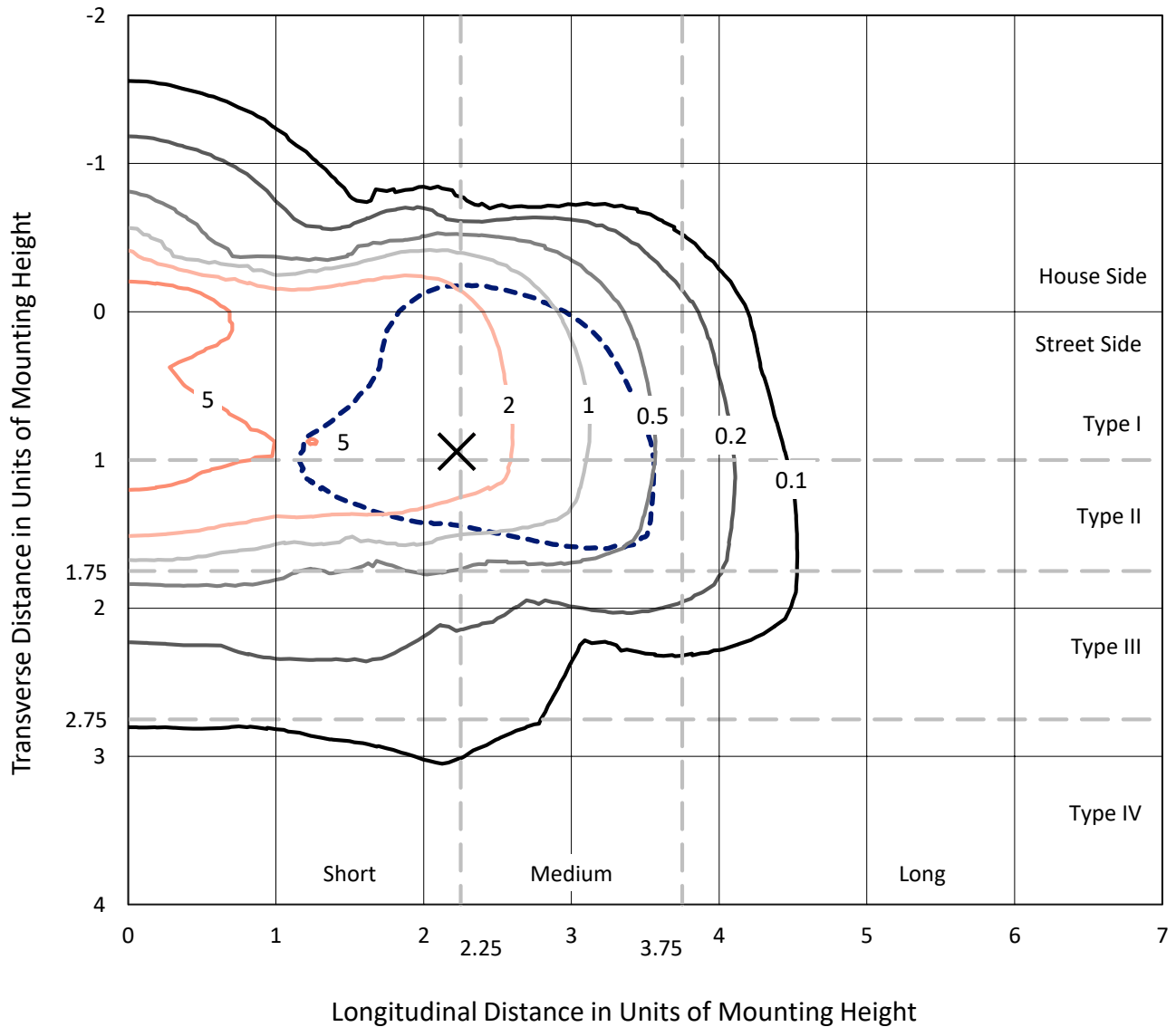
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

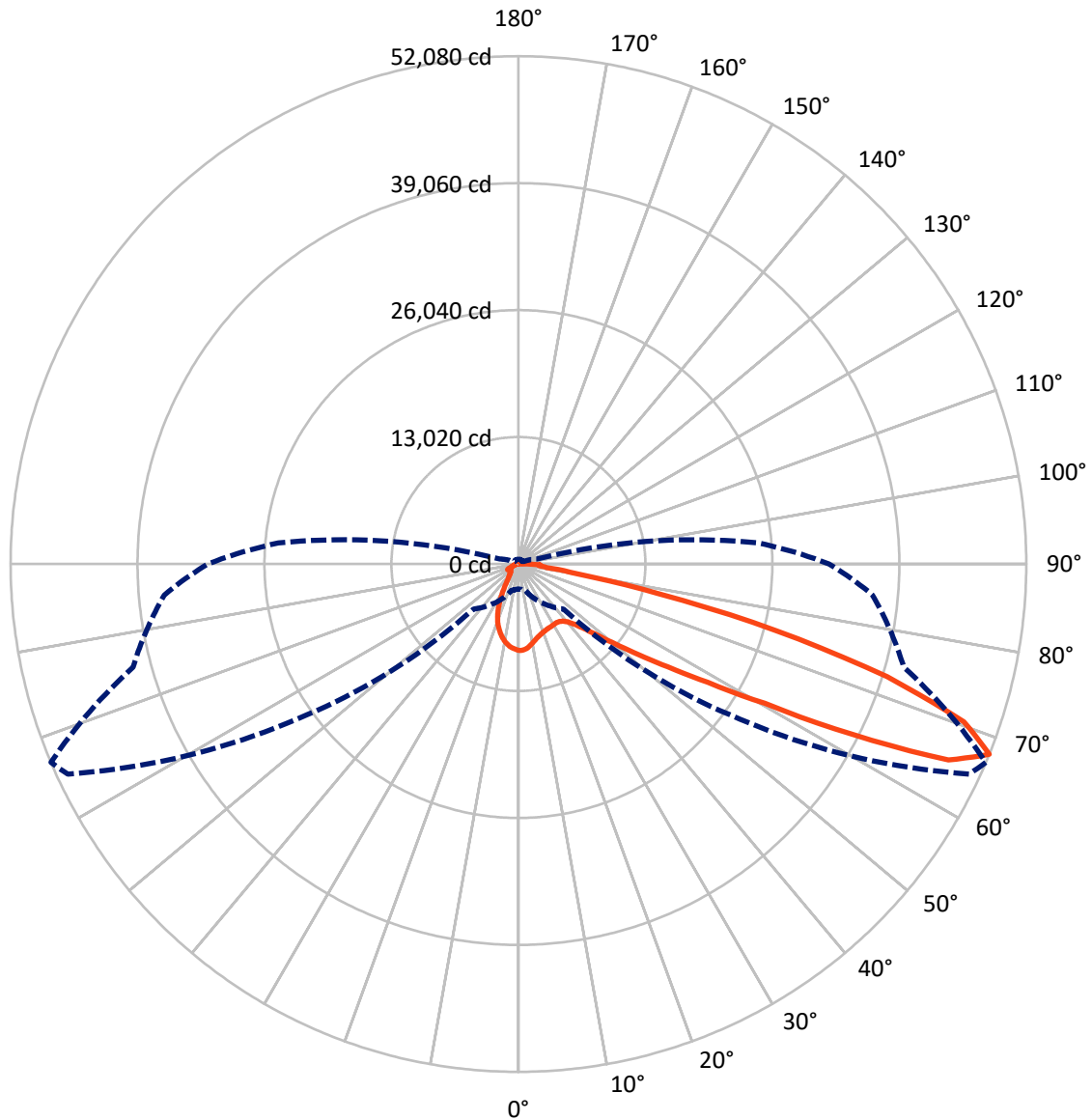
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	6810.3	0.0	6810.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	34292.7	0.0	34292.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	41103.0	0.0	41103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.4	1.8
10°-20°	1750.2	4.3
20°-30°	2372.4	5.8
30°-40°	3372.6	8.2
40°-50°	5642.4	13.7
50°-60°	8926.3	21.7
60°-70°	11371.2	27.7
70°-80°	5956.2	14.5
80°-90°	955.3	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°	41103.0	100.0
0°-180°	41103.0	100.0



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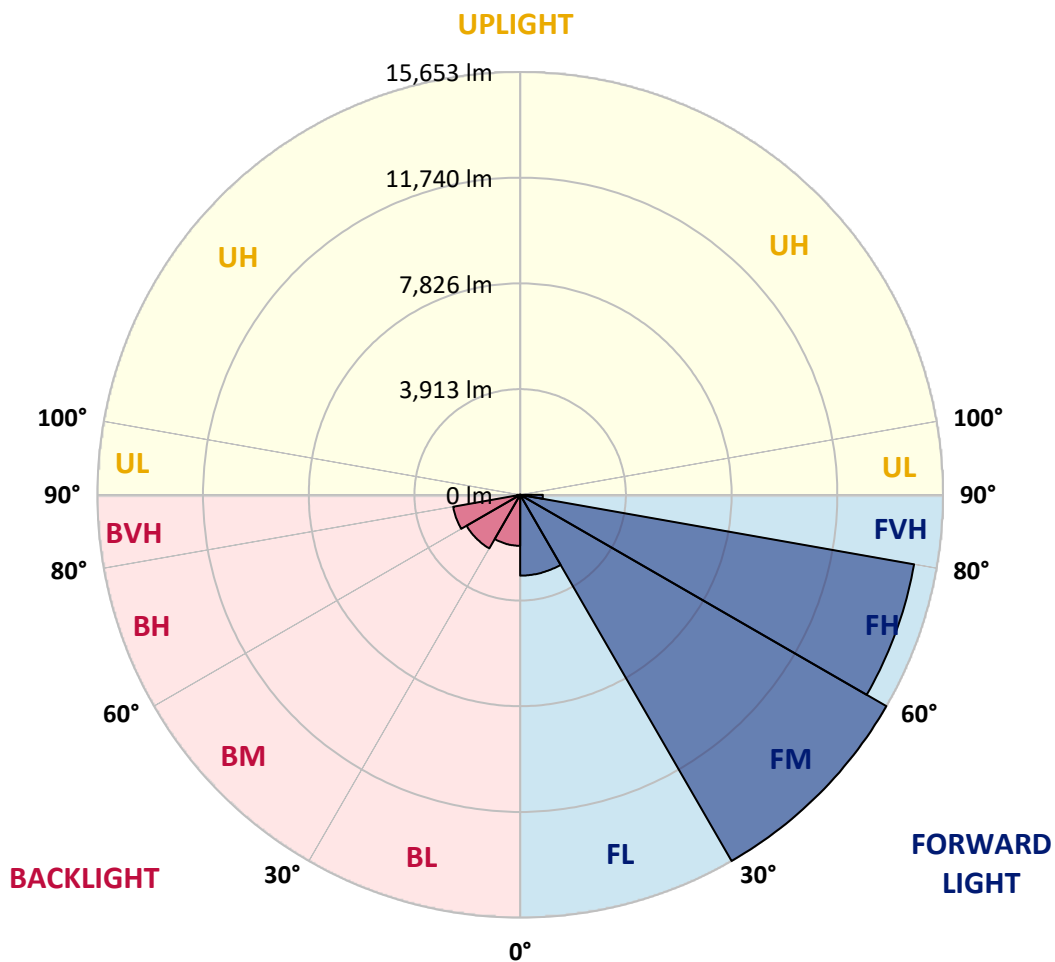
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2991.3	7.3			
FM	(30°-60°)	15652.9	38.1			
FH	(60°-80°)	14808.5	36.0			G5
FVH	(80°-90°)	840.0	2.0			G5
BL	(0°-30°)	1887.6	4.6	B3/2500		
BM	(30°-60°)	2288.5	5.6	B2/2500		
BH	(60°-80°)	2518.9	6.1	B4/5000		G4/5000
BVH	(80°-90°)	115.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8
2.5°	8501.0	8515.1	8559.7	8588.1	8715.8	8770.5	8809.1	8847.6	8853.6	8871.9	8853.6
5°	7609.1	7639.5	7722.6	7815.9	8063.1	8257.7	8462.4	8675.3	8713.8	8851.6	8890.1
7.5°	6917.9	6909.8	6978.7	7090.2	7343.6	7613.2	7971.9	8395.6	8478.7	8788.8	8938.8
10°	6413.2	6407.1	6480.1	6595.6	6836.8	7092.2	7497.6	8077.3	8194.9	8689.5	8985.4
12.5°	6040.3	6042.3	6115.3	6243.0	6488.2	6745.6	7157.1	7769.2	7919.2	8573.9	9034.0
15°	5793.0	5809.2	5868.0	6003.8	6243.0	6500.4	6903.7	7538.2	7706.4	8482.7	9088.8
17.5°	5709.9	5736.2	5756.5	5855.8	6060.5	6318.0	6713.2	7367.9	7546.3	8419.9	9137.4
20°	5786.9	5817.3	5778.8	5813.2	5943.0	6170.0	6563.2	7234.1	7416.5	8348.9	9143.5
22.5°	6117.3	6145.7	6032.2	5932.8	5924.7	6062.6	6439.6	7128.7	7317.2	8296.2	9145.5
25°	6699.0	6717.3	6526.7	6295.7	6070.7	6024.0	6352.4	7055.8	7256.4	8249.6	9107.0
27.5°	7412.5	7426.7	7207.8	6867.3	6415.2	6115.3	6322.0	7013.2	7222.0	8209.1	9042.2
30°	8280.0	8346.9	8053.0	7623.3	6964.5	6384.8	6382.8	6990.9	7183.5	8140.2	8914.5
32.5°	9167.8	9196.2	8993.5	8557.7	7704.4	6859.1	6553.1	7007.1	7173.3	8057.1	8752.3
35°	10067.8	10104.3	9972.5	9621.9	8715.8	7554.4	6885.5	7102.4	7236.2	8028.7	8638.8
37.5°	11233.3	11281.9	11099.5	10694.1	9946.2	8496.9	7438.8	7341.6	7428.7	8109.8	8604.3
40°	13075.7	13053.5	12520.4	11916.3	11292.0	9702.9	8229.4	7746.9	7797.6	8371.2	8709.7
42.5°	15220.2	15165.5	14247.3	13298.7	12771.7	11162.3	9275.2	8450.3	8440.2	8886.1	9080.7
45°	16931.0	16886.4	16059.4	14889.9	14468.3	12824.4	10627.2	9498.2	9423.2	9702.9	9765.8
47.5°	17857.3	17859.3	17383.0	16428.3	16418.2	14936.5	12364.3	11014.4	10884.6	11016.4	10949.5
50°	17533.0	17575.5	17524.9	17220.8	18197.8	17705.3	14632.4	13128.4	12867.0	12996.7	12739.3
52.5°	15964.1	16018.9	16318.8	16785.0	18945.7	21051.7	17964.7	15755.4	15451.3	15404.7	15118.9
55°	13183.2	13250.1	13862.2	15129.0	18323.5	23299.6	23222.6	19103.8	18619.4	18179.6	18058.0
57.5°	9086.7	9198.2	10183.3	12064.3	16310.7	23978.6	29483.8	23877.3	22892.2	21355.8	21384.1
60°	5122.1	5251.8	6413.2	8121.9	12248.8	23240.8	34247.1	31107.3	29027.7	25075.2	25286.0
62.5°	3257.3	3397.1	4278.9	5643.0	7349.7	19268.0	36199.0	41158.9	38517.8	29660.1	29866.9
65°	2637.0	2697.8	3113.4	4657.9	5336.9	11608.2	34717.3	49438.9	48453.8	35479.4	34514.6
67.5°	2574.2	2594.5	2809.3	3910.0	5118.0	6524.7	27692.0	50987.5	52080.0	40913.7	36450.3
70°	2543.8	2614.7	3166.1	3731.6	4901.1	5503.1	16641.1	46743.1	48468.0	42334.5	33874.1
72.5°	1234.4	1230.3	1593.2	3374.8	5521.4	5707.8	8549.6	37820.6	39551.6	36677.4	27835.9
75°	995.2	910.1	869.6	1236.4	5308.5	5894.3	5448.4	26023.8	27276.4	24590.8	17111.4
77.5°	944.6	843.2	772.3	774.3	2243.8	6251.1	4615.3	14403.4	14768.2	11107.6	4688.3
80°	782.4	689.2	638.5	719.6	1086.4	5953.1	4990.3	6518.6	5981.5	2728.3	1560.7
82.5°	543.2	494.6	480.4	604.0	869.6	4242.4	5803.1	3502.5	2937.0	1366.2	962.8
85°	346.6	295.9	328.4	439.8	677.0	1958.0	5977.4	2730.3	2170.8	867.5	543.2
87.5°	160.1	129.7	162.2	243.2	441.9	675.0	5687.6	3066.8	2235.7	458.1	342.6
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°	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8	8865.8
2.5°	8869.9	8831.3	8800.9	8744.2	8681.4	8620.5	8565.8	8496.9	8476.6	8458.4	8486.8
5°	8898.2	8859.7	8748.2	8573.9	8381.4	8201.0	8020.6	7866.5	7771.3	7718.6	7749.0
7.5°	8940.8	8886.1	8655.0	8334.8	7988.1	7671.9	7345.6	7084.1	6891.6	6800.4	6826.7
10°	8979.3	8873.9	8496.9	8016.5	7509.8	7039.5	6524.7	6099.0	5782.8	5616.6	5657.2
12.5°	8995.5	8827.3	8276.0	7619.2	6924.0	6234.8	5476.8	4840.3	4386.3	4220.1	4185.6
15°	9011.7	8774.6	8032.7	7167.2	6216.6	5241.7	4179.5	3417.4	3040.4	2957.3	2939.1
17.5°	9015.8	8683.4	7757.1	6676.7	5387.6	4059.9	2858.0	2373.5	2375.6	2509.3	2525.6
20°	8973.2	8547.6	7422.6	6066.6	4394.4	2807.3	1962.1	1879.0	2185.0	2519.5	2560.0
22.5°	8875.9	8367.2	7043.6	5355.2	3257.3	1848.6	1518.2	1609.4	2004.6	2414.1	2460.7
25°	8752.3	8148.3	6595.6	4530.2	2156.7	1321.6	1272.9	1384.4	1652.0	1925.6	1951.9
27.5°	8584.1	7888.8	6093.0	3585.6	1400.6	1088.5	1120.9	1195.9	1305.3	1427.0	1439.1
30°	8367.2	7578.7	5555.8	2614.7	1058.1	979.0	1025.6	1066.2	1112.8	1181.7	1187.8
32.5°	8117.9	7280.7	5004.5	1806.0	938.5	922.3	958.7	979.0	1015.5	1058.1	1062.1
35°	7909.1	6997.0	4432.9	1277.0	887.8	879.7	904.0	912.1	946.6	993.2	997.3
37.5°	7789.5	6765.9	3843.1	1029.7	853.3	841.2	855.4	855.4	904.0	972.9	983.1
40°	7797.6	6638.2	3253.2	930.4	825.0	808.7	810.8	810.8	873.6	948.6	954.7
42.5°	8018.5	6670.6	2730.3	891.9	802.7	784.4	774.3	780.4	833.1	881.7	885.8
45°	8537.4	6899.7	2239.8	867.5	780.4	774.3	752.0	750.0	770.2	792.5	792.5
47.5°	9388.8	7351.7	1907.3	851.3	762.1	760.1	733.7	707.4	705.4	713.5	713.5
50°	10773.2	8130.0	1684.4	833.1	750.0	733.7	703.3	662.8	648.6	654.7	654.7
52.5°	12848.7	9518.5	1599.3	808.7	723.6	697.3	662.8	622.3	610.1	612.1	612.1
55°	15570.9	11650.8	1587.1	780.4	695.2	652.7	624.3	593.9	579.7	583.8	583.8
57.5°	18897.1	14600.0	1804.0	735.8	656.7	608.1	591.9	571.6	561.5	567.5	565.5
60°	22940.8	18459.3	2675.6	689.2	618.2	567.5	567.5	551.3	543.2	549.3	547.3
62.5°	27598.7	22892.2	3762.0	654.7	577.7	535.1	543.2	535.1	527.0	531.1	529.0
65°	31729.6	25780.6	3522.8	628.3	537.1	504.7	518.9	514.8	508.8	512.8	510.8
67.5°	31849.2	24710.3	1978.3	600.0	498.6	474.3	494.6	492.5	488.5	492.5	490.5
70°	28423.7	20865.3	1114.8	547.3	458.1	437.8	466.2	464.2	460.1	468.2	466.2
72.5°	22772.6	15141.2	814.8	482.4	417.5	399.3	431.7	429.7	429.7	441.9	435.8
75°	13104.1	7791.5	650.6	413.5	375.0	360.8	389.2	391.2	395.3	411.5	399.3
77.5°	3735.6	2428.3	531.1	350.7	322.3	316.2	344.6	348.6	350.7	368.9	352.7
80°	1388.4	1118.9	437.8	293.9	263.5	265.5	291.9	298.0	300.0	318.2	298.0
82.5°	885.8	737.8	354.7	227.0	206.7	204.7	237.2	245.3	245.3	247.3	235.1
85°	516.9	441.9	267.6	164.2	145.9	139.9	176.3	190.5	184.5	180.4	172.3
87.5°	346.6	304.0	164.2	91.2	79.1	75.0	103.4	113.5	109.5	103.4	97.3
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)