

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: P651565

Luminaire Tested: **GALN-SA8D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43457.8 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

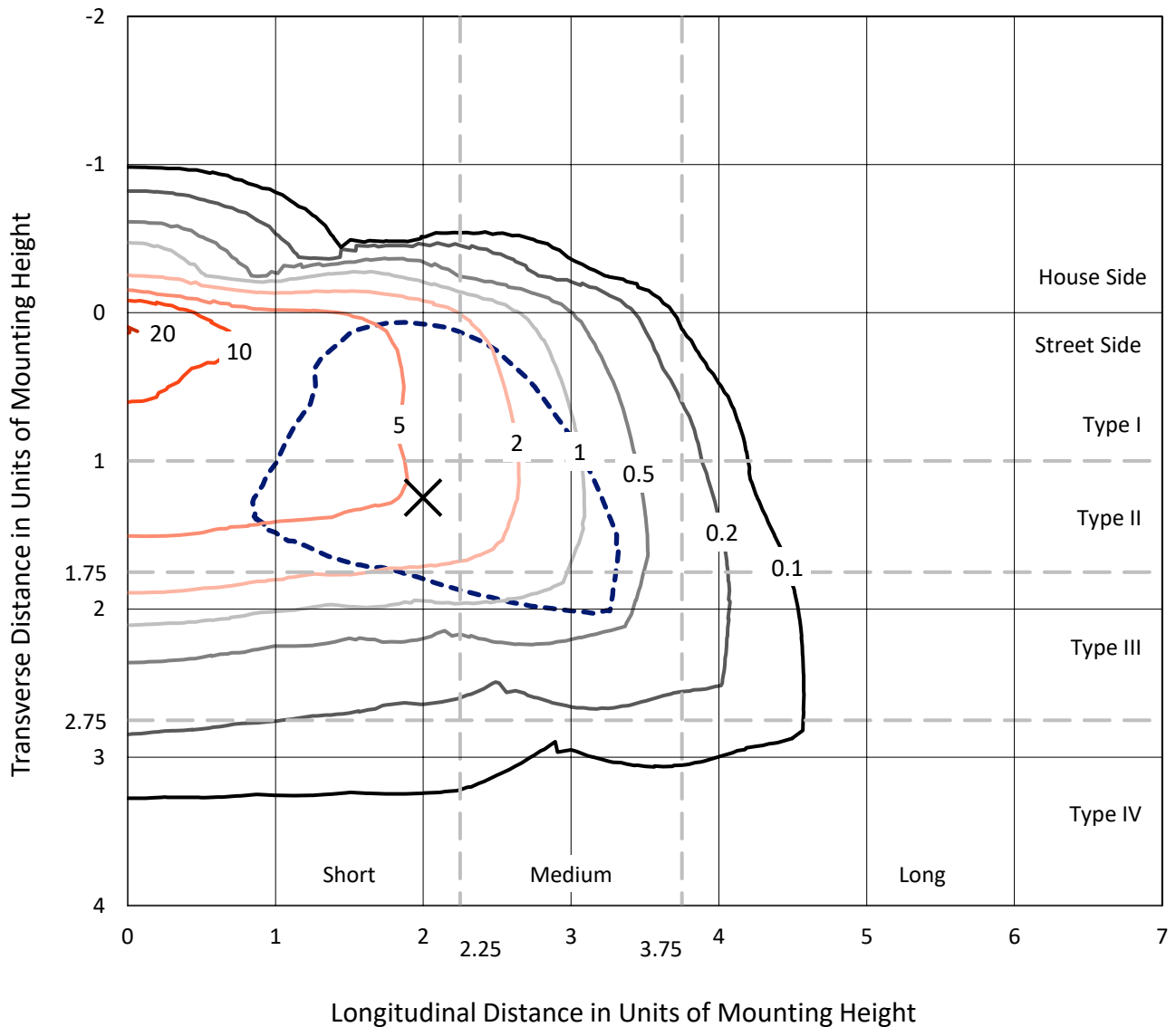
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

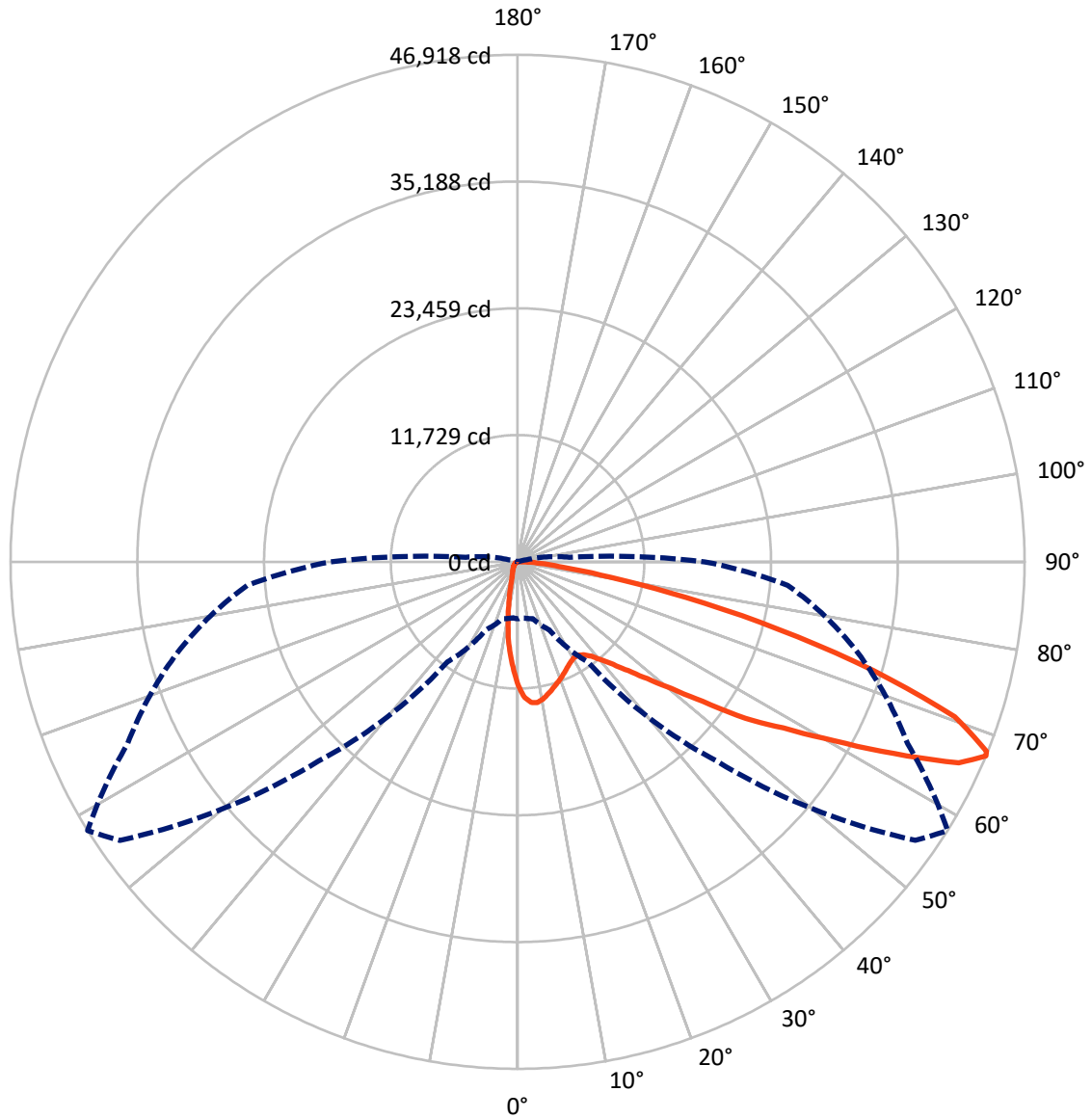
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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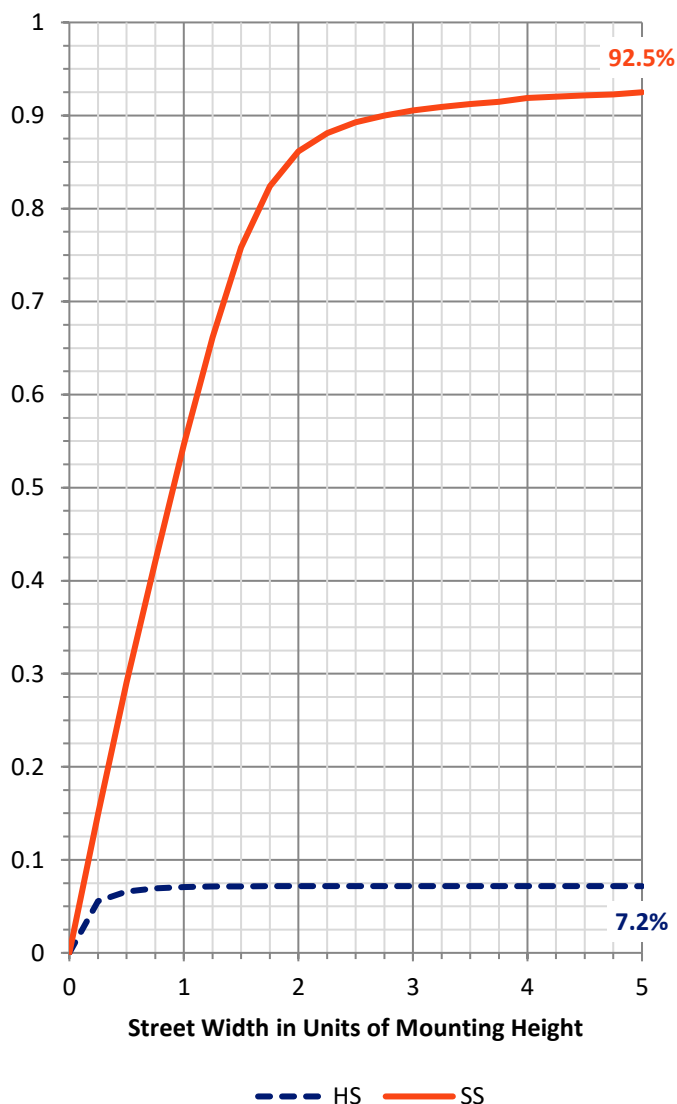
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.2	0.0	3136.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	40321.7	0.0	40321.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	43457.8	0.0	43457.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.8	2.2
10°-20°	2019.0	4.6
20°-30°	2735.9	6.3
30°-40°	3794.6	8.7
40°-50°	6051.9	13.9
50°-60°	10461.2	24.1
60°-70°	11950.0	27.5
70°-80°	4982.0	11.5
80°-90°	528.2	1.2
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°	43457.8	100.0
0°-180°	43457.8	100.0

Coefficient of Utilization



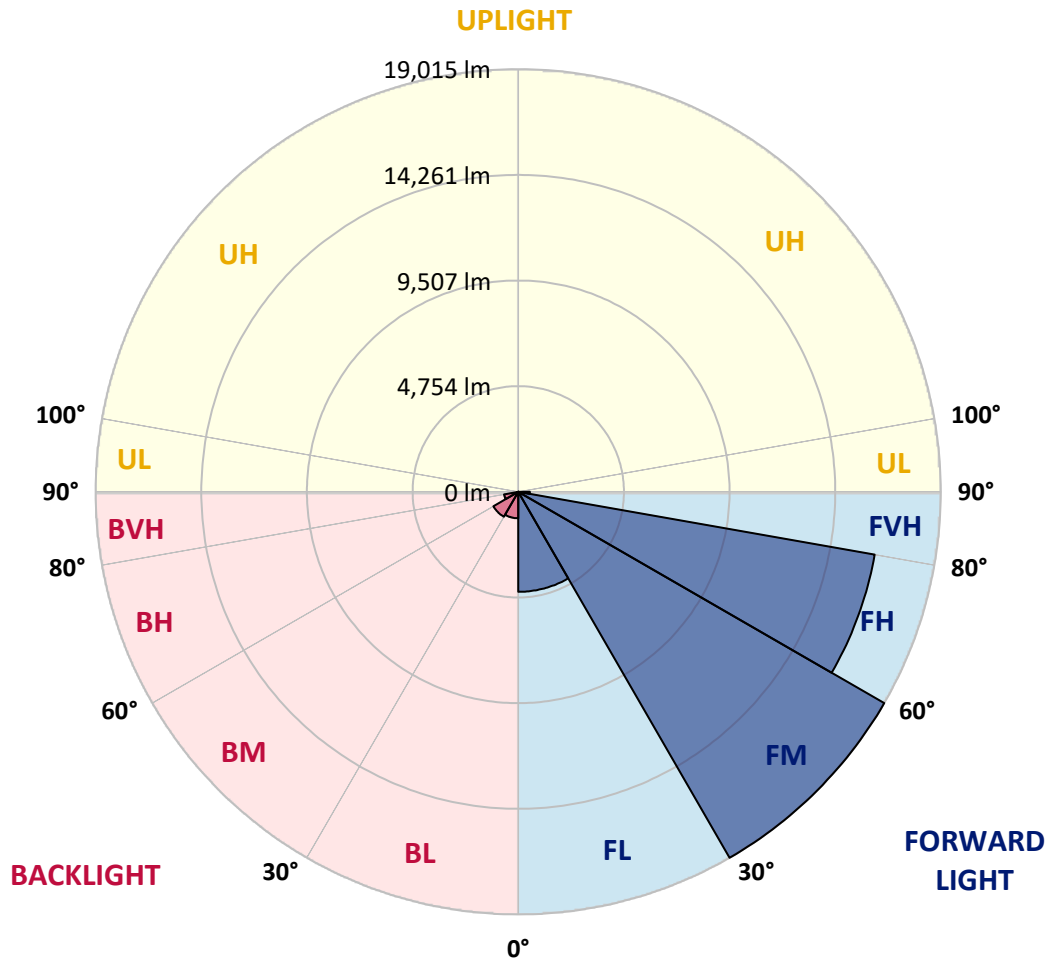
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4498.9	10.4			
FM (30°-60°)	19014.6	43.8			
FH (60°-80°)	16283.7	37.5			G5
FVH (80°-90°)	524.4	1.2			G4/750
BL (0°-30°)	1190.9	2.7	B3/2500		
BM (30°-60°)	1293.1	3.0	B2/2500		
BH (60°-80°)	648.3	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3
2.5°	13370.1	13390.5	13315.0	13254.0	13097.1	12928.7	12705.2	12586.1	12382.8	12031.3	11642.2
5°	13683.7	13709.9	13698.3	13683.7	13622.8	13460.1	13175.5	13071.0	12771.9	12199.8	11497.1
7.5°	12986.8	13082.7	13094.3	13207.5	13315.0	13329.5	13222.0	13143.7	12867.7	12196.9	11238.6
10°	12063.3	12127.2	12220.2	12350.8	12609.3	12824.2	12928.7	12917.1	12757.4	12106.9	10936.5
12.5°	11131.1	11166.0	11308.3	11531.9	11848.4	12214.3	12493.1	12548.3	12551.2	11999.5	10683.9
15°	10329.6	10315.1	10425.5	10683.9	11128.2	11587.0	12086.6	12173.6	12313.1	11894.9	10448.7
17.5°	9644.3	9719.8	9737.2	10021.8	10431.3	11026.6	11662.6	11816.5	12095.3	11804.9	10254.1
20°	9220.3	9260.9	9298.7	9458.4	9827.3	10454.5	11264.7	11476.7	11892.0	11723.5	10036.3
22.5°	9095.4	9121.6	9089.6	9139.0	9400.4	9957.9	10832.0	11113.7	11697.4	11648.0	9859.2
25°	9191.2	9217.4	9141.8	9083.8	9173.8	9554.3	10413.9	10756.5	11540.6	11633.6	9725.6
27.5°	9423.6	9472.9	9368.4	9263.9	9211.6	9336.4	10085.7	10483.6	11433.1	11703.2	9664.6
30°	9786.5	9815.6	9737.2	9609.4	9490.3	9365.5	9914.4	10294.8	11404.1	11865.8	9658.8
32.5°	10181.5	10242.5	10199.0	10114.7	9960.8	9664.6	9963.7	10300.6	11473.8	12101.1	9731.4
35°	10669.4	10739.1	10779.8	10762.4	10564.8	10196.0	10277.4	10562.0	11659.6	12533.8	9928.8
37.5°	11148.5	11209.5	11438.9	11517.3	11343.2	10994.6	10887.2	11076.0	12069.1	13100.1	10286.1
40°	11697.4	11778.7	12101.1	12400.2	12315.9	11950.1	11752.6	11909.4	12696.4	13953.9	10962.7
42.5°	12223.0	12368.3	12859.1	13387.5	13466.0	13056.5	12925.8	12978.1	13625.7	15182.2	11906.5
45°	12969.4	13105.9	13738.9	14456.3	14825.1	14505.7	14372.0	14363.4	14900.6	16910.2	13436.9
47.5°	14046.8	14168.7	14915.1	15623.7	16280.0	16323.6	16070.9	16158.0	16503.6	18931.3	15312.9
50°	15368.1	15655.6	16146.4	16884.0	17761.0	18469.6	18548.0	18431.9	18728.1	21272.0	17566.5
52.5°	17287.7	17398.0	17848.1	18455.1	19483.1	20685.4	21617.6	21457.9	21364.9	23502.2	19843.2
55°	18719.3	18867.5	19567.3	20400.8	21908.0	23493.6	25514.8	25569.9	24396.7	25645.5	22070.6
57.5°	18286.6	18513.2	19573.1	21248.8	24562.2	27460.5	28964.8	29002.5	27202.0	27727.7	24585.5
60°	16065.0	16172.5	17691.4	19927.4	24788.7	31758.4	33858.1	33553.1	30056.7	30056.7	26807.0
62.5°	11392.5	11560.9	12792.2	16082.5	22387.2	33251.1	39718.3	39088.2	33988.8	32284.1	28131.3
65°	7280.4	7117.8	7933.8	10152.5	16677.8	31046.9	44820.8	44858.5	37688.5	33175.6	27408.2
67°	5273.7	5209.8	5445.1	6940.6	11308.3	26098.5	44928.2	46917.5	39814.2	32612.2	25096.6
67.5°	4823.6	4872.9	5044.3	6261.1	10274.4	23749.2	44440.3	46795.5	40293.4	32272.4	24260.2
70°	3656.2	3572.0	3757.8	4428.6	6159.4	14981.9	38228.6	42918.6	39698.1	28900.9	19384.4
72.5°	2689.1	2680.4	2938.9	3621.3	4742.3	7980.2	28697.6	34412.7	32432.2	22006.7	12205.6
75°	1815.0	1896.4	2308.7	3026.0	4297.9	5175.0	19564.4	24965.9	22514.9	12496.0	4989.1
77.5°	1033.8	1039.6	1486.9	2430.7	3859.4	4164.4	11592.8	15905.3	11918.1	4155.6	1481.1
80°	447.2	490.8	737.6	1765.7	3200.3	3688.1	6647.3	8741.1	4820.7	879.9	479.2
82.5°	165.5	194.6	325.2	1086.1	2334.9	3037.6	4016.3	4173.1	1635.0	310.7	299.1
85°	0.0	5.8	119.1	508.2	1216.8	1356.2	2683.3	2474.2	723.1	148.1	194.6
87.5°	0.0	0.0	0.0	52.3	159.7	505.3	833.4	929.3	174.3	52.3	46.4
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°	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3	11520.3
2.5°	11433.1	11244.4	10771.0	10297.7	9946.3	9653.0	9211.6	8970.5	8842.8	8654.0	8665.6
5°	11145.7	10762.4	9928.8	9066.4	8369.4	7689.9	6876.8	6548.6	6272.7	6115.9	6011.3
7.5°	10718.8	10152.5	8918.3	7768.2	6696.7	5509.0	4617.4	4022.1	3621.3	3473.2	3330.9
10°	10251.2	9499.1	7893.1	6298.8	4811.9	3586.4	2831.4	2285.5	2090.9	1910.8	1928.2
12.5°	9818.5	8903.8	6952.2	4971.7	3371.6	2279.7	1777.3	1553.7	1489.7	1469.5	1469.5
15°	9464.2	8334.6	5941.7	3737.5	2311.6	1637.8	1423.0	1362.0	1338.8	1333.0	1333.0
17.5°	9086.7	7794.4	5029.8	2761.8	1681.4	1370.7	1298.1	1257.5	1248.7	1242.9	1242.9
20°	8749.8	7251.4	4164.4	2056.1	1359.1	1234.3	1187.7	1161.6	1152.9	1147.1	1150.0
22.5°	8430.4	6769.3	3351.2	1553.7	1196.5	1123.8	1077.4	1051.2	1033.8	1019.3	1022.2
25°	8145.8	6304.6	2694.9	1271.9	1077.4	1013.5	967.1	929.3	891.5	874.1	871.2
27.5°	7945.4	5898.1	2099.6	1089.0	969.9	900.2	842.2	795.7	746.3	720.2	714.4
30°	7779.9	5485.7	1661.1	961.3	862.5	795.7	723.1	656.3	604.0	577.9	566.2
32.5°	7672.4	5093.7	1309.7	856.7	772.5	691.1	609.8	543.0	485.0	458.8	453.0
35°	7655.0	4765.5	1071.6	769.6	691.1	604.0	519.8	447.2	397.9	371.7	365.9
37.5°	7779.9	4512.9	897.3	699.9	624.4	528.6	435.6	368.8	325.2	304.9	302.0
40°	8113.9	4353.1	778.3	641.8	563.4	458.8	371.7	313.6	270.0	249.8	249.8
42.5°	8749.8	4358.9	699.9	586.6	502.4	392.1	316.6	261.4	223.6	206.2	200.4
45°	9743.0	4556.5	633.1	531.4	444.3	339.8	270.0	214.9	177.1	162.6	162.6
47.5°	11073.0	4948.4	575.0	476.3	392.1	290.4	229.4	174.3	142.3	127.7	127.7
50°	12812.6	5578.6	525.6	429.8	348.5	249.8	185.9	142.3	110.3	98.7	95.9
52.5°	14630.5	6357.0	467.5	389.1	299.1	212.0	151.0	110.3	84.2	75.5	72.6
55°	16637.2	7117.8	412.3	348.5	244.0	177.1	119.1	87.1	61.0	52.3	52.3
57.5°	18661.3	7864.1	345.6	290.4	191.7	130.7	92.9	63.9	40.6	32.0	32.0
60°	20374.7	8105.1	293.3	235.2	145.2	92.9	66.8	40.6	23.2	14.5	14.5
62.5°	20609.9	7292.0	246.8	180.1	104.5	63.9	34.8	23.2	8.7	5.8	5.8
65°	19332.1	5924.2	206.2	136.5	69.7	32.0	14.5	8.7	2.9	0.0	0.0
67°	17322.5	4803.3	168.5	101.7	49.4	20.4	8.7	2.9	0.0	0.0	0.0
67.5°	16808.5	4579.7	162.6	95.9	43.6	17.4	5.8	2.9	0.0	0.0	0.0
70°	13190.1	3429.7	116.1	58.1	26.2	11.6	0.0	0.0	0.0	0.0	0.0
72.5°	8198.1	1939.9	84.2	34.8	17.4	5.8	0.0	0.0	0.0	0.0	0.0
75°	3098.6	679.5	58.1	23.2	11.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	964.1	258.4	34.8	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	325.2	98.7	23.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	200.4	40.6	14.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	124.9	17.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.2	5.8	2.9	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)