

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: P458378

Luminaire Tested: **GALN-SA9D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57687 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

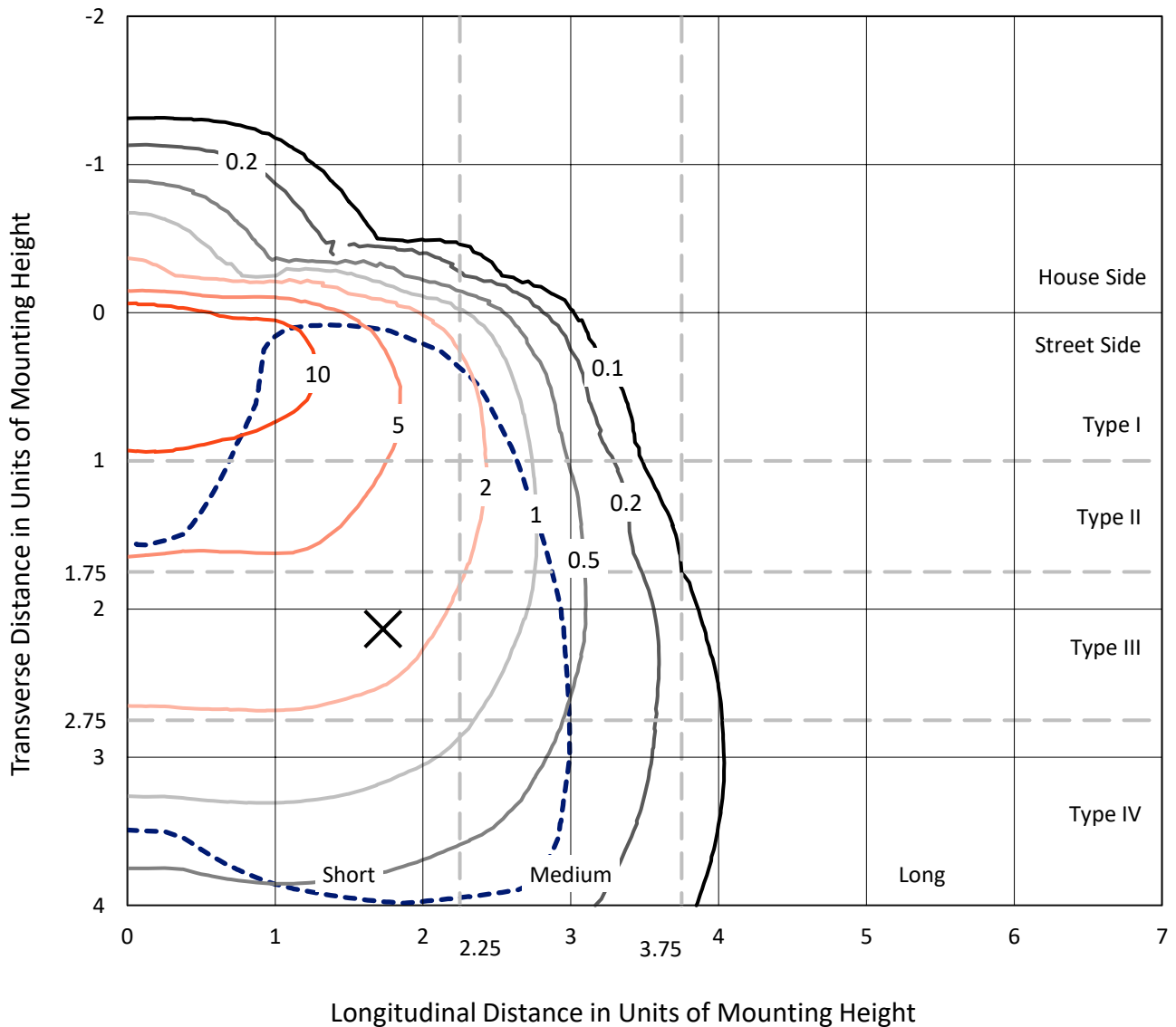
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

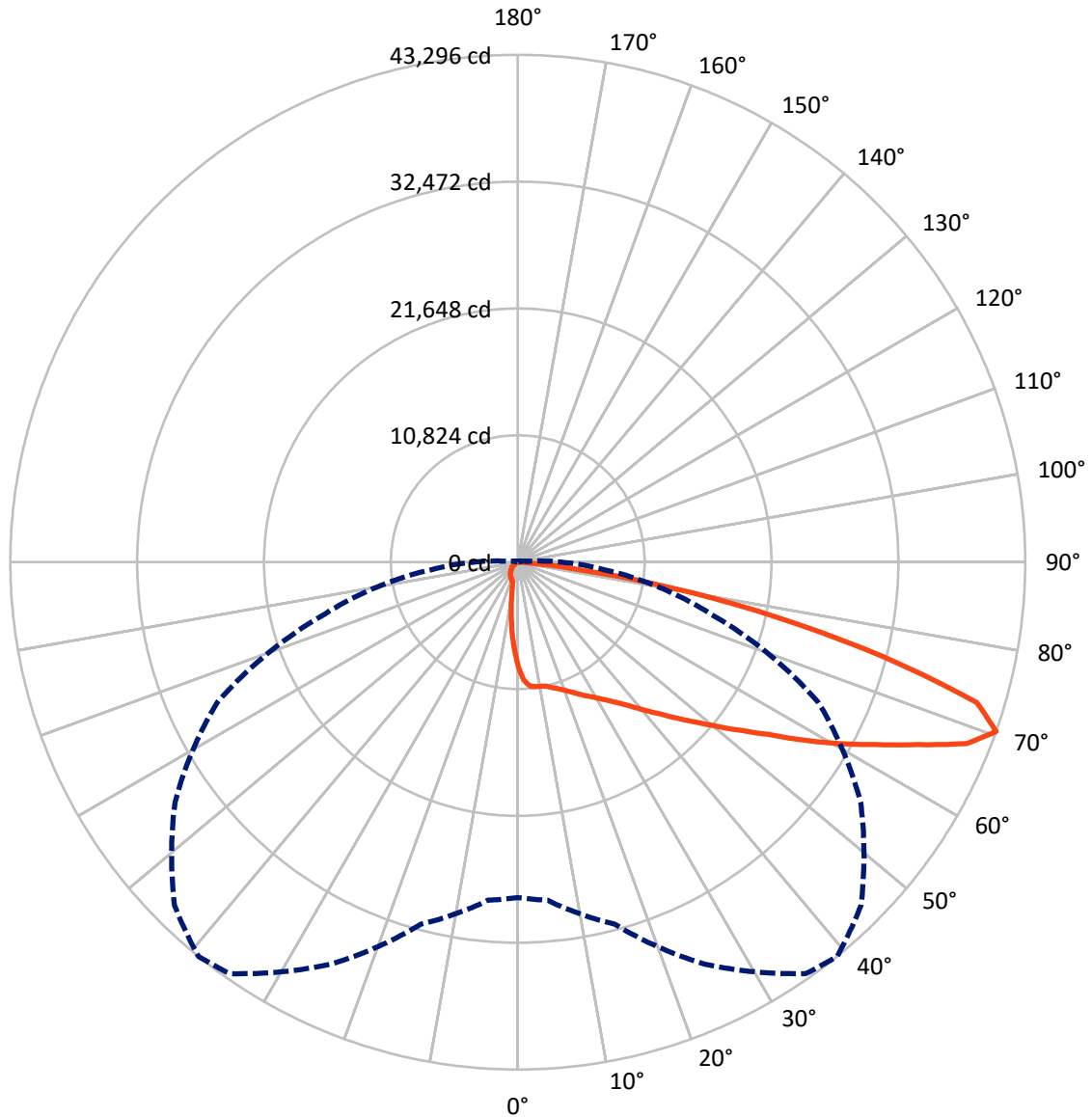
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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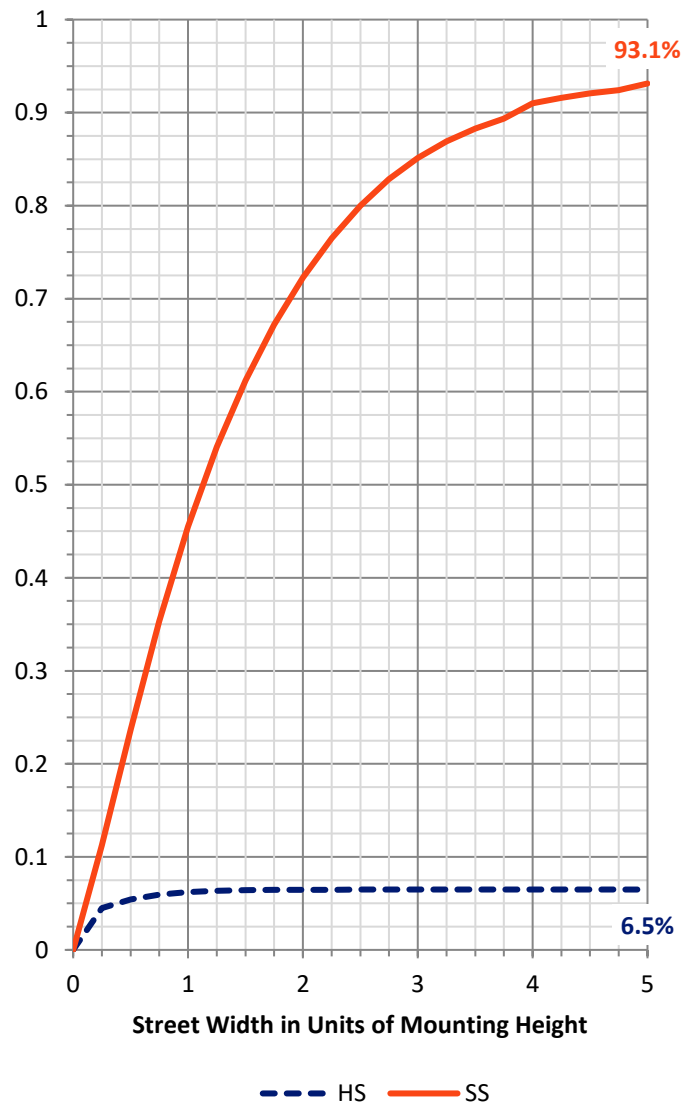
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.5	0.0	3761.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	53925.5	0.0	53925.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	57687.0	0.0	57687.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	1.3
10°-20°	1995.1	3.5
20°-30°	3342.4	5.8
30°-40°	5183.6	9.0
40°-50°	8214.5	14.2
50°-60°	12041.2	20.9
60°-70°	15433.9	26.8
70°-80°	9698.2	16.8
80°-90°	1010.3	1.8
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°	57687.0	100.0
0°-180°	57687.0	100.0



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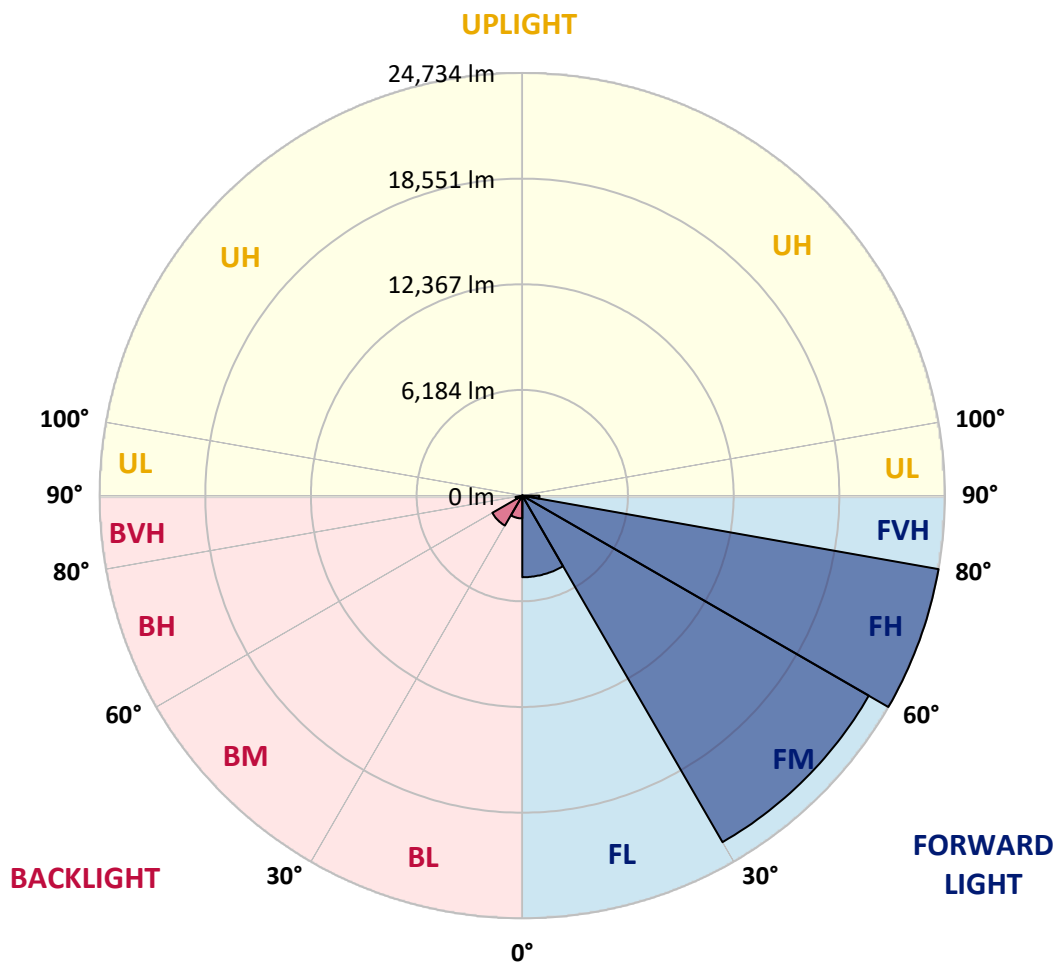
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4773.3	8.3			
FM	(30°-60°)	23415.0	40.6			
FH	(60°-80°)	24734.3	42.9			G5
FVH	(80°-90°)	1002.9	1.7			G5
BL	(0°-30°)	1331.9	2.3	B3/2500		
BM	(30°-60°)	2024.3	3.5	B2/2500		
BH	(60°-80°)	397.8	0.7	B1/500		G1/500
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2
2.5°	10400.6	10365.7	10319.1	10264.9	10109.8	10082.7	9989.6	9791.9	9555.5	9361.7	9094.2
5°	10892.9	10912.2	10877.4	10780.4	10668.0	10602.1	10485.8	10179.6	9873.4	9481.8	9043.8
7.5°	11005.3	11044.0	11001.4	10908.4	10799.8	10730.1	10637.0	10373.4	10016.8	9571.0	8970.1
10°	10993.7	11040.2	11013.0	10927.8	10838.6	10772.7	10671.9	10462.6	10175.7	9706.7	8993.4
12.5°	10974.3	11036.3	11032.4	10989.8	10916.1	10865.7	10803.7	10617.6	10350.2	9904.4	9121.3
15°	10920.0	10997.5	11067.3	11102.2	11106.1	11106.1	11028.5	10830.8	10575.0	10164.1	9288.0
17.5°	10943.3	11032.4	11206.9	11307.6	11377.4	11369.7	11288.3	11075.1	10792.1	10431.6	9462.4
20°	11086.7	11206.9	11451.1	11652.7	11722.4	11699.2	11590.6	11342.5	11020.8	10660.3	9633.0
22.5°	11439.4	11548.0	11854.2	12090.7	12141.1	12079.1	11924.0	11586.8	11296.0	10908.4	9838.5
25°	11966.6	12094.6	12377.6	12555.9	12555.9	12521.0	12303.9	11908.5	11606.1	11253.4	10105.9
27.5°	12606.3	12714.8	12993.9	13152.8	13059.8	12959.0	12741.9	12265.1	11974.4	11687.5	10427.7
30°	13253.6	13323.4	13618.0	13687.8	13590.9	13463.0	13230.4	12753.6	12497.7	12276.8	10892.9
32.5°	13866.1	14017.3	14261.5	14246.0	14114.2	14052.2	13839.0	13331.2	13187.7	13164.5	11544.1
35°	14478.6	14594.9	14812.0	14866.2	14749.9	14738.3	14583.3	14207.2	14211.1	14362.3	12559.7
37.5°	15005.8	15110.5	15366.3	15486.5	15509.7	15567.9	15505.9	15257.8	15610.5	16025.3	13904.9
40°	15447.7	15595.0	15920.6	16130.0	16370.3	16583.5	16595.1	16649.4	17358.8	18072.1	15660.9
42.5°	15792.7	15998.2	16471.1	16858.7	17409.2	17680.6	17897.6	18196.1	19390.1	20456.1	17730.9
45°	16242.4	16478.9	17068.1	17676.7	18537.3	18983.0	19285.4	20084.0	21778.0	23231.7	19855.3
47.5°	16986.7	17110.7	17711.6	18599.3	19731.2	20366.9	20956.2	22165.6	24340.3	25642.8	21622.9
50°	17944.2	18025.6	18479.1	19711.8	21177.1	22014.4	23088.2	24510.9	26999.6	27643.1	22623.0
52.5°	19002.4	19029.6	19370.7	20936.8	22797.5	23851.9	25053.6	26809.6	29166.5	29069.6	23285.9
55°	20231.3	20192.5	20483.2	22266.4	24716.3	25921.9	27321.3	29162.6	31046.6	30081.4	23665.8
57.5°	21638.4	21533.8	21816.7	24030.2	27174.0	28616.1	30038.7	31193.9	32504.2	30930.3	23848.0
60°	23111.5	22902.2	23239.4	26011.1	30069.7	31438.1	32620.4	32930.6	34039.2	31604.8	23534.0
62.5°	24286.1	24289.9	24917.9	28119.9	33046.9	34244.7	34872.7	35151.8	35361.1	31457.5	21882.6
65°	26119.6	26181.6	27185.6	31046.6	36493.0	37531.9	37962.2	37055.1	35419.3	29627.8	19401.7
67.5°	28011.3	28209.0	30046.5	35078.1	40474.2	41311.5	40757.1	37423.4	33837.7	25452.9	14711.2
70°	28627.7	28953.3	31980.8	37853.7	42862.1	43296.2	41420.0	35706.1	28286.6	17017.7	7404.0
72.5°	26232.0	26759.2	30868.3	36841.9	41338.6	40962.6	37059.0	29945.7	17982.9	6462.1	2260.0
75°	18498.5	18731.1	25654.4	30562.0	33248.4	32182.4	28189.7	19304.8	7396.3	1814.2	775.3
77.5°	9551.6	9439.2	15257.8	20277.8	23712.3	22607.5	18459.7	9993.5	2802.7	755.9	480.7
80°	4938.6	5020.0	6601.6	10625.4	14474.7	13319.5	9842.3	4632.4	1492.4	418.7	368.3
82.5°	2767.8	2597.2	3795.1	4640.1	6768.3	5306.9	3775.7	3279.5	651.2	252.0	348.9
85°	503.9	527.2	2081.7	2508.1	2349.1	1492.4	1217.2	2190.2	189.9	139.6	244.2
87.5°	7.8	7.8	403.2	721.0	457.4	209.3	383.8	314.0	38.8	54.3	42.6
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°	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2	9001.2
2.5°	8958.5	8811.2	8536.0	8264.6	7919.6	7636.6	7446.7	7249.0	7047.4	7062.9	7109.4
5°	8803.5	8547.6	8004.9	7431.2	6880.7	6384.5	5896.1	5458.1	5279.7	5116.9	5124.7
7.5°	8648.4	8287.9	7493.2	6593.9	5760.4	4915.4	4302.9	3798.9	3531.5	3329.9	3271.7
10°	8578.6	8101.8	7024.2	5787.6	4605.2	3682.6	2895.7	2484.8	2166.9	2066.2	2093.3
12.5°	8609.6	8008.8	6601.6	5058.8	3651.6	2566.2	2015.8	1806.4	1736.7	1725.0	1717.3
15°	8667.8	7942.9	6186.8	4252.5	2682.5	1907.2	1694.0	1655.3	1647.5	1639.7	1643.6
17.5°	8745.3	7884.7	5744.9	3496.6	2058.4	1666.9	1604.9	1585.5	1581.6	1581.6	1581.6
20°	8822.8	7818.8	5252.6	2822.1	1717.3	1573.8	1535.1	1523.5	1519.6	1519.6	1515.7
22.5°	8912.0	7760.7	4752.5	2217.3	1581.6	1507.9	1473.1	1465.3	1461.4	1457.6	1457.6
25°	9039.9	7687.0	4221.5	1814.2	1496.3	1445.9	1411.0	1403.3	1399.4	1383.9	1387.8
27.5°	9210.5	7632.8	3674.9	1566.1	1418.8	1368.4	1345.1	1333.5	1325.8	1314.1	1318.0
30°	9443.1	7586.2	3093.4	1430.4	1329.6	1287.0	1263.7	1256.0	1248.2	1236.6	1236.6
32.5°	9846.2	7605.6	2480.9	1321.9	1248.2	1197.8	1174.6	1166.8	1159.1	1147.4	1147.4
35°	10450.9	7718.0	1984.7	1228.8	1151.3	1100.9	1077.7	1077.7	1066.0	1050.5	1046.6
37.5°	11439.4	8004.9	1593.2	1139.7	1058.3	1011.8	984.6	976.9	965.2	942.0	938.1
40°	12606.3	8450.7	1341.3	1050.5	973.0	926.5	903.2	880.0	848.9	825.7	821.8
42.5°	14071.6	8908.1	1162.9	961.4	891.6	848.9	821.8	783.0	736.5	705.5	701.6
45°	15598.9	9326.8	1042.8	880.0	814.1	779.2	748.2	686.1	628.0	589.2	585.3
47.5°	16738.6	9404.3	945.9	802.4	748.2	713.3	670.6	593.1	515.6	480.7	469.1
50°	17277.4	9028.3	845.1	724.9	682.3	643.5	589.2	500.1	414.8	372.1	364.4
52.5°	17467.3	8377.0	763.7	655.1	616.4	569.8	503.9	403.2	325.6	283.0	279.1
55°	17389.8	7555.2	690.0	589.2	538.8	484.6	418.7	321.7	240.3	205.5	197.7
57.5°	16982.8	6508.6	616.4	523.3	461.3	407.0	333.4	240.3	162.8	131.8	127.9
60°	15885.8	5082.0	542.7	449.7	391.5	333.4	263.6	170.6	100.8	73.7	73.7
62.5°	14032.8	3771.8	472.9	376.0	329.5	267.5	186.1	108.5	54.3	38.8	34.9
65°	11726.3	2783.3	395.4	317.9	275.2	209.3	131.8	65.9	27.1	11.6	7.8
67.5°	8183.2	1717.3	329.5	259.7	224.8	151.2	81.4	27.1	11.6	0.0	0.0
70°	3717.5	817.9	252.0	197.7	170.6	108.5	42.6	15.5	7.8	0.0	0.0
72.5°	1155.2	430.3	178.3	143.4	116.3	69.8	23.3	11.6	7.8	0.0	0.0
75°	535.0	275.2	112.4	77.5	65.9	34.9	15.5	7.8	3.9	0.0	0.0
77.5°	399.3	213.2	65.9	42.6	34.9	23.3	11.6	7.8	3.9	0.0	0.0
80°	348.9	108.5	38.8	27.1	19.4	15.5	7.8	3.9	0.0	0.0	0.0
82.5°	314.0	54.3	23.3	15.5	11.6	7.8	3.9	3.9	0.0	0.0	0.0
85°	170.6	31.0	15.5	11.6	7.8	3.9	3.9	0.0	0.0	0.0	0.0
87.5°	31.0	15.5	11.6	7.8	7.8	3.9	3.9	3.9	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)