

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: P528156

Luminaire Tested: **GALN-SA3B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12018 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

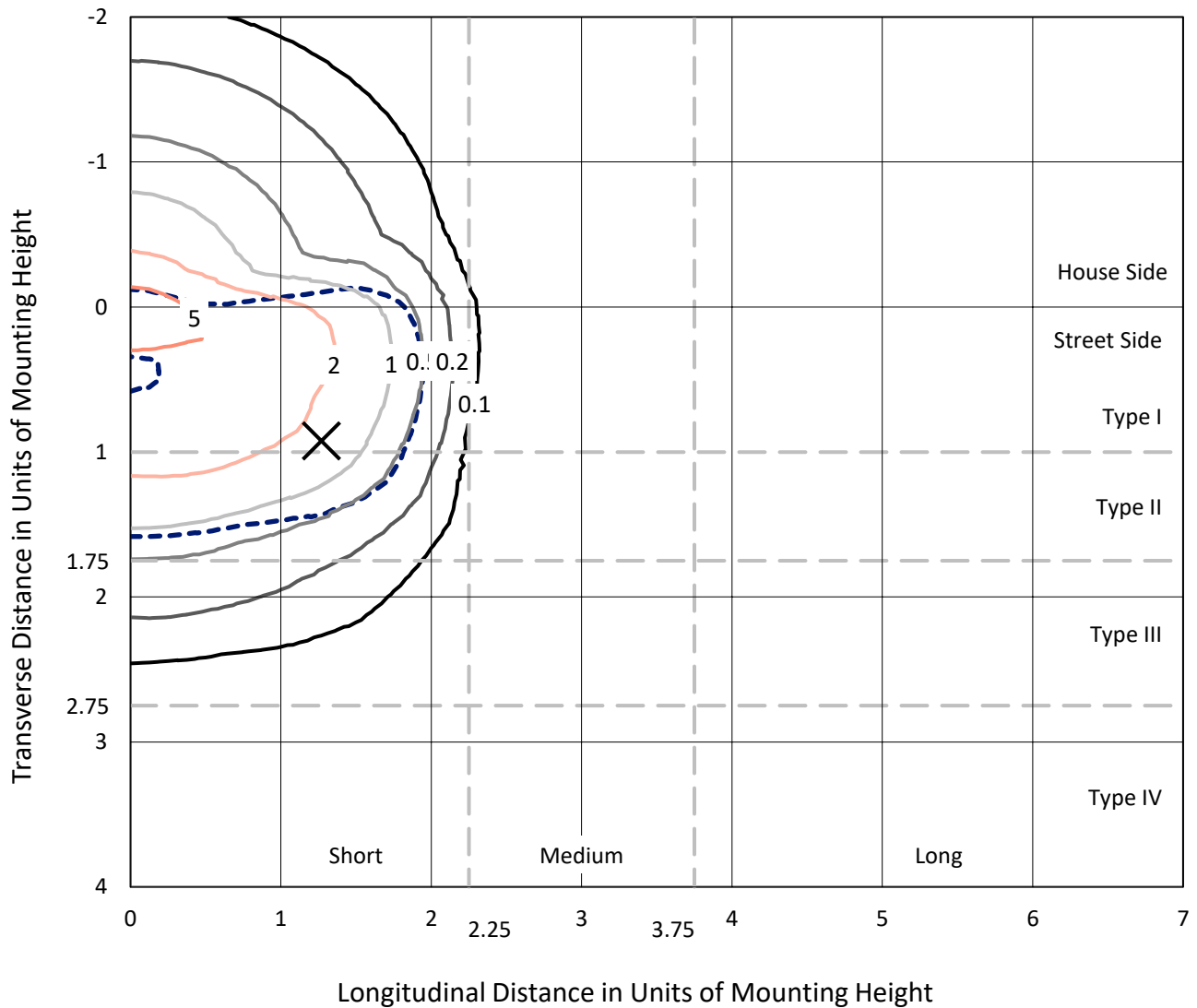
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

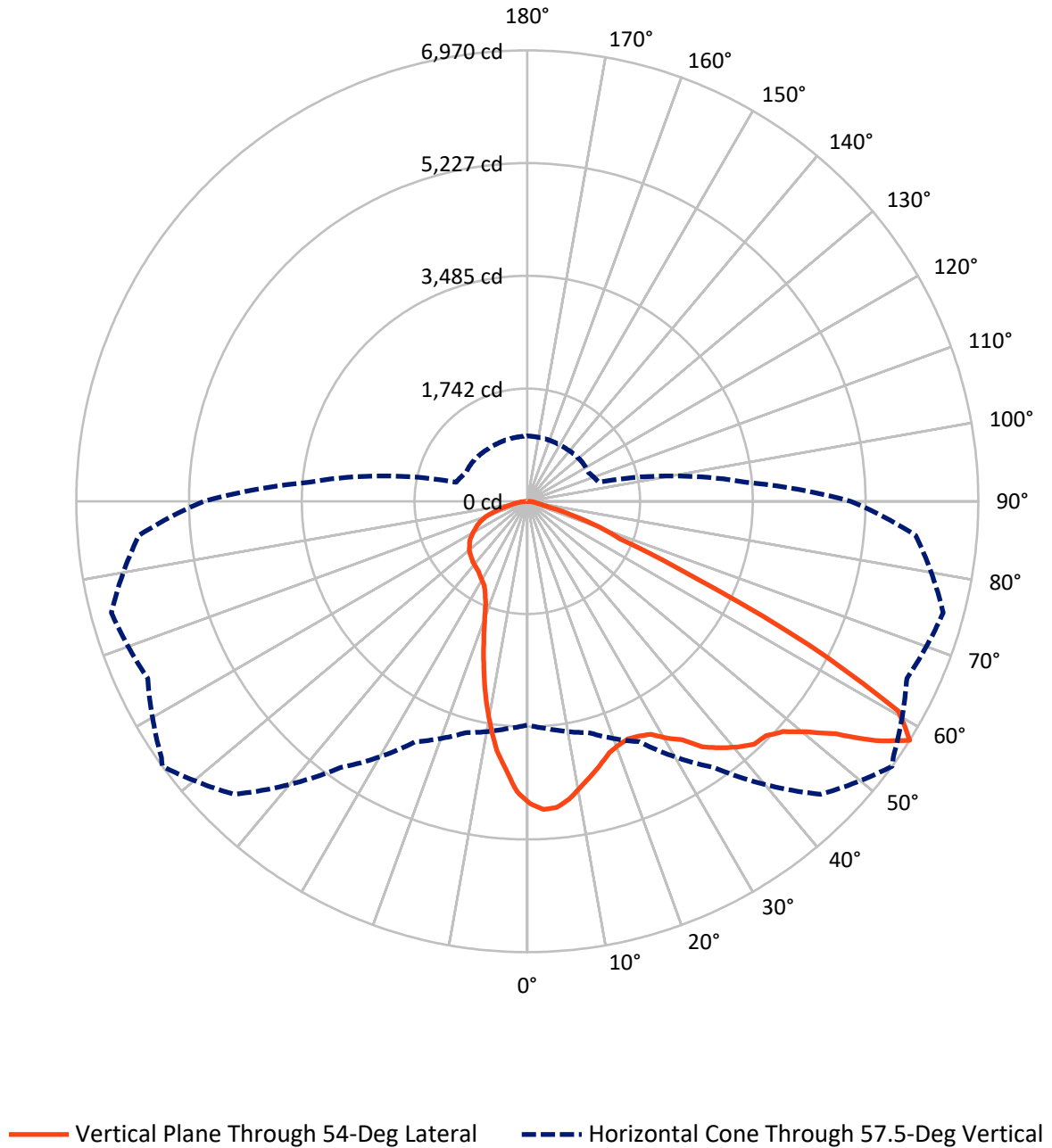
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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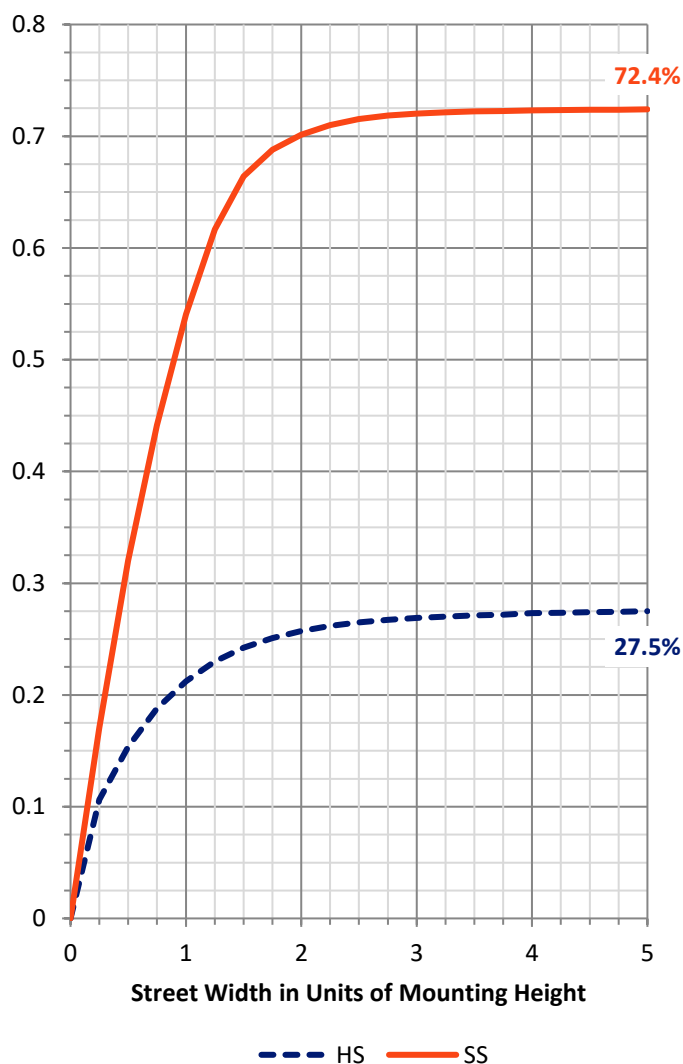
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.8	0.0	3324.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	8693.1	0.0	8693.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	12018.0	0.0	12018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	3.4
10°-20°	932.7	7.8
20°-30°	1310.5	10.9
30°-40°	1832.1	15.2
40°-50°	2480.3	20.6
50°-60°	3021.2	25.1
60°-70°	1573.6	13.1
70°-80°	403.2	3.4
80°-90°	61.5	0.5
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°	12018.0	100.0
0°-180°	12018.0	100.0

Coefficient of Utilization



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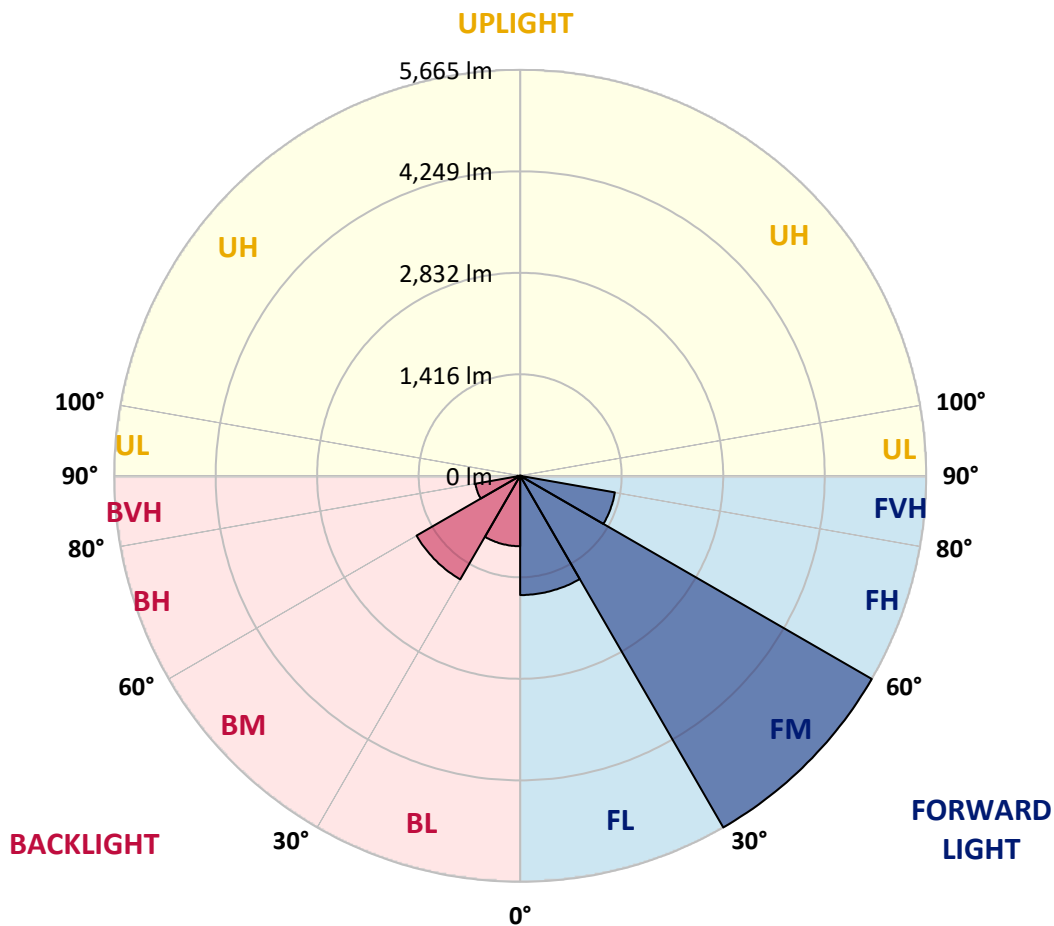
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.5	13.8			
FM (30°-60°)	5664.9	47.1			
FH (60°-80°)	1341.5	11.2			G1/1800
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	982.7	8.2	B2/1000		
BM (30°-60°)	1668.7	13.9	B2/2500		
BH (60°-80°)	635.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	38.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3
2.5°	4804.1	4785.6	4788.7	4813.4	4782.5	4770.1	4770.1	4709.9	4714.5	4672.8	4662.0
5°	4692.9	4649.6	4679.0	4716.1	4722.2	4734.6	4754.7	4739.2	4696.0	4651.2	4578.6
7.5°	4402.5	4441.1	4451.9	4478.2	4533.8	4584.8	4648.1	4604.8	4603.3	4558.5	4515.2
10°	4147.6	4124.4	4183.1	4221.7	4314.4	4399.4	4496.7	4492.1	4515.2	4464.3	4390.1
12.5°	3894.3	3875.7	3903.5	3991.6	4121.3	4244.9	4360.8	4317.5	4441.1	4431.8	4272.7
15°	3625.5	3639.4	3679.5	3761.4	3931.3	4079.6	4226.4	4227.9	4337.6	4374.7	4161.5
17.5°	3437.0	3421.6	3472.5	3594.6	3746.0	3923.6	4090.4	4124.4	4292.8	4314.4	4127.5
20°	3296.5	3318.1	3384.5	3446.3	3620.8	3835.6	4024.0	4036.4	4283.5	4342.2	4073.4
22.5°	3262.5	3250.1	3271.7	3372.1	3515.8	3749.1	3988.5	4034.8	4282.0	4333.0	3971.5
25°	3226.9	3267.1	3265.6	3366.0	3471.0	3679.5	4017.8	4068.8	4363.9	4380.8	3985.4
27.5°	3307.3	3302.6	3345.9	3353.6	3483.4	3698.1	4079.6	4118.2	4499.8	4485.9	3996.2
30°	3387.6	3364.4	3390.7	3481.8	3542.1	3804.7	4249.5	4246.5	4675.9	4666.6	4030.2
32.5°	3486.5	3475.6	3492.6	3573.0	3674.9	3946.8	4393.2	4484.3	4855.1	4913.8	4147.6
35°	3505.0	3549.8	3589.9	3698.1	3843.3	4176.9	4663.5	4739.2	5062.1	5245.9	4371.6
37.5°	3622.4	3639.4	3733.6	3925.2	4058.0	4484.3	4835.0	4882.9	5250.5	5459.1	4607.9
40°	3747.5	3767.6	3909.7	4110.5	4292.8	4685.2	4995.7	5011.1	5310.8	5622.8	4762.4
42.5°	3917.4	3936.0	4076.5	4328.3	4572.4	4856.6	5137.8	5154.8	5306.1	5811.3	5008.0
45°	4093.5	4138.3	4303.6	4589.4	4808.7	5057.4	5170.2	5239.7	5349.4	5979.6	5207.3
47.5°	4340.7	4382.4	4518.3	4797.9	5054.4	5233.5	5320.0	5388.0	5452.9	6126.4	5335.5
50°	4603.3	4611.0	4776.3	5029.6	5218.1	5432.8	5599.6	5622.8	5588.8	6296.3	5553.3
52.5°	4796.4	4821.1	4949.3	5196.5	5477.6	5741.8	5970.4	5995.1	5928.7	6359.6	5627.4
55°	4476.6	4462.7	4671.3	5000.3	5652.2	6202.1	6534.2	6552.7	6175.8	6555.8	5870.0
57.5°	3460.2	3526.6	3704.3	4101.3	5021.9	6406.0	6969.8	6903.4	6472.4	6654.7	6024.4
60°	2514.8	2499.4	2618.3	2884.0	3784.6	5520.9	6589.8	6657.8	6229.9	5998.2	4967.8
62.5°	2048.3	2026.7	2036.0	2045.2	2442.2	3664.1	4878.3	4876.7	4797.9	4311.3	3350.5
65°	1637.4	1688.4	1693.0	1762.5	1813.5	2188.9	2826.9	2978.2	2593.6	2127.1	1543.2
67.5°	1234.2	1215.7	1277.5	1524.6	1620.4	1580.3	1543.2	1560.2	1109.1	800.2	753.8
70°	727.6	719.8	794.0	1062.8	1334.6	1255.9	1163.2	1164.7	761.6	559.2	622.5
72.5°	398.5	397.0	412.4	539.1	758.5	787.8	698.2	719.8	454.2	452.6	486.6
75°	222.4	217.8	213.2	237.9	273.4	288.9	295.0	298.1	312.0	349.1	363.0
77.5°	81.9	78.8	78.8	91.1	115.9	145.2	183.8	186.9	220.9	253.3	267.2
80°	27.8	30.9	41.7	57.2	77.2	103.5	125.1	128.2	156.0	177.6	182.3
82.5°	17.0	18.5	27.8	40.2	55.6	72.6	92.7	94.2	115.9	129.8	135.9
85°	7.7	9.3	15.4	24.7	35.5	47.9	49.4	49.4	47.9	49.4	46.3
87.5°	0.0	0.0	3.1	3.1	3.1	4.6	6.2	4.6	7.7	9.3	9.3
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°	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3	4671.3
2.5°	4629.6	4612.6	4560.0	4513.7	4499.8	4438.0	4346.9	4357.7	4291.3	4322.2	4289.7
5°	4566.2	4509.1	4374.7	4317.5	4167.7	4099.7	4053.4	3937.5	3883.4	3872.6	3826.3
7.5°	4404.0	4368.5	4200.1	4045.6	3886.5	3750.6	3576.0	3457.1	3372.1	3349.0	3281.0
10°	4275.8	4197.0	3963.8	3729.0	3501.9	3265.6	3038.5	2860.8	2774.3	2673.9	2639.9
12.5°	4149.1	4030.2	3715.1	3413.8	3120.4	2822.2	2547.3	2331.0	2142.5	2097.7	2082.3
15°	4070.4	3863.4	3492.6	3129.6	2712.5	2323.3	2048.3	1906.2	1790.3	1742.5	1776.4
17.5°	3966.9	3725.9	3279.5	2796.0	2337.2	1978.8	1748.6	1660.6	1618.9	1623.5	1609.6
20°	3837.1	3596.1	2999.9	2493.2	2002.0	1716.2	1584.9	1552.5	1558.6	1569.4	1564.8
22.5°	3744.4	3438.6	2797.5	2184.2	1730.1	1571.0	1516.9	1493.8	1513.8	1523.1	1515.4
25°	3673.4	3304.2	2551.9	1910.8	1572.5	1489.1	1464.4	1462.9	1493.8	1506.1	1498.4
27.5°	3608.5	3179.1	2307.8	1702.3	1467.5	1425.8	1418.1	1436.6	1456.7	1469.0	1479.8
30°	3569.9	3083.3	2079.2	1527.7	1415.0	1394.9	1381.0	1398.0	1408.8	1421.2	1415.0
32.5°	3606.9	3015.3	1858.3	1428.9	1371.7	1351.6	1370.2	1359.4	1377.9	1388.7	1371.7
35°	3722.8	2955.1	1700.7	1376.4	1322.3	1330.0	1333.1	1328.5	1336.2	1326.9	1347.0
37.5°	3837.1	2933.4	1555.5	1331.6	1299.1	1299.1	1296.0	1286.8	1302.2	1299.1	1308.4
40°	3982.3	2947.3	1432.0	1283.7	1277.5	1274.4	1262.0	1260.5	1254.3	1255.9	1259.0
42.5°	4109.0	2978.2	1360.9	1252.8	1257.4	1263.6	1240.4	1221.9	1229.6	1214.2	1214.2
45°	4243.4	3006.0	1297.6	1231.1	1226.5	1225.0	1206.4	1195.6	1189.4	1191.0	1204.9
47.5°	4455.0	3046.2	1249.7	1201.8	1204.9	1181.7	1177.1	1163.2	1169.4	1178.6	1180.2
50°	4604.8	3131.2	1212.6	1167.8	1178.6	1163.2	1135.4	1129.2	1129.2	1144.6	1141.6
52.5°	4709.9	3250.1	1177.1	1130.7	1135.4	1123.0	1113.7	1099.8	1090.6	1112.2	1123.0
55°	5031.2	3447.8	1167.8	1099.8	1098.3	1085.9	1069.0	1055.0	1050.4	1053.5	1075.1
57.5°	5000.3	3386.0	1138.5	1045.8	1042.7	1025.7	1008.7	1004.1	1002.5	1005.6	1011.8
60°	4059.5	2500.9	1016.4	984.0	979.4	976.3	959.3	940.7	931.5	940.7	933.0
62.5°	2686.3	1674.5	895.9	909.8	912.9	905.2	877.4	858.9	862.0	872.8	855.8
65°	1319.2	984.0	812.5	849.6	852.7	831.1	804.8	783.2	772.4	781.6	773.9
67.5°	753.8	752.3	744.6	783.2	781.6	760.0	718.3	699.8	681.2	684.3	679.7
70°	639.5	651.9	667.3	690.5	688.9	664.2	614.8	600.9	574.6	571.5	563.8
72.5°	503.6	525.2	559.2	576.2	562.3	531.4	498.9	475.8	452.6	438.7	443.3
75°	373.8	404.7	423.3	434.1	412.4	395.5	369.2	341.4	313.6	301.2	296.6
77.5°	271.9	281.1	298.1	305.9	292.0	275.0	259.5	231.7	205.4	188.5	183.8
80°	190.0	196.2	208.5	208.5	208.5	200.8	180.7	152.9	135.9	120.5	117.4
82.5°	132.8	139.0	151.4	145.2	143.7	134.4	122.0	100.4	81.9	71.1	68.0
85°	46.3	51.0	61.8	74.1	78.8	77.2	69.5	55.6	43.3	35.5	32.4
87.5°	10.8	10.8	12.4	10.8	10.8	12.4	10.8	10.8	10.8	7.7	6.2
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)