

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: P953778

Luminaire Tested: **GALN-SB7B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31670 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

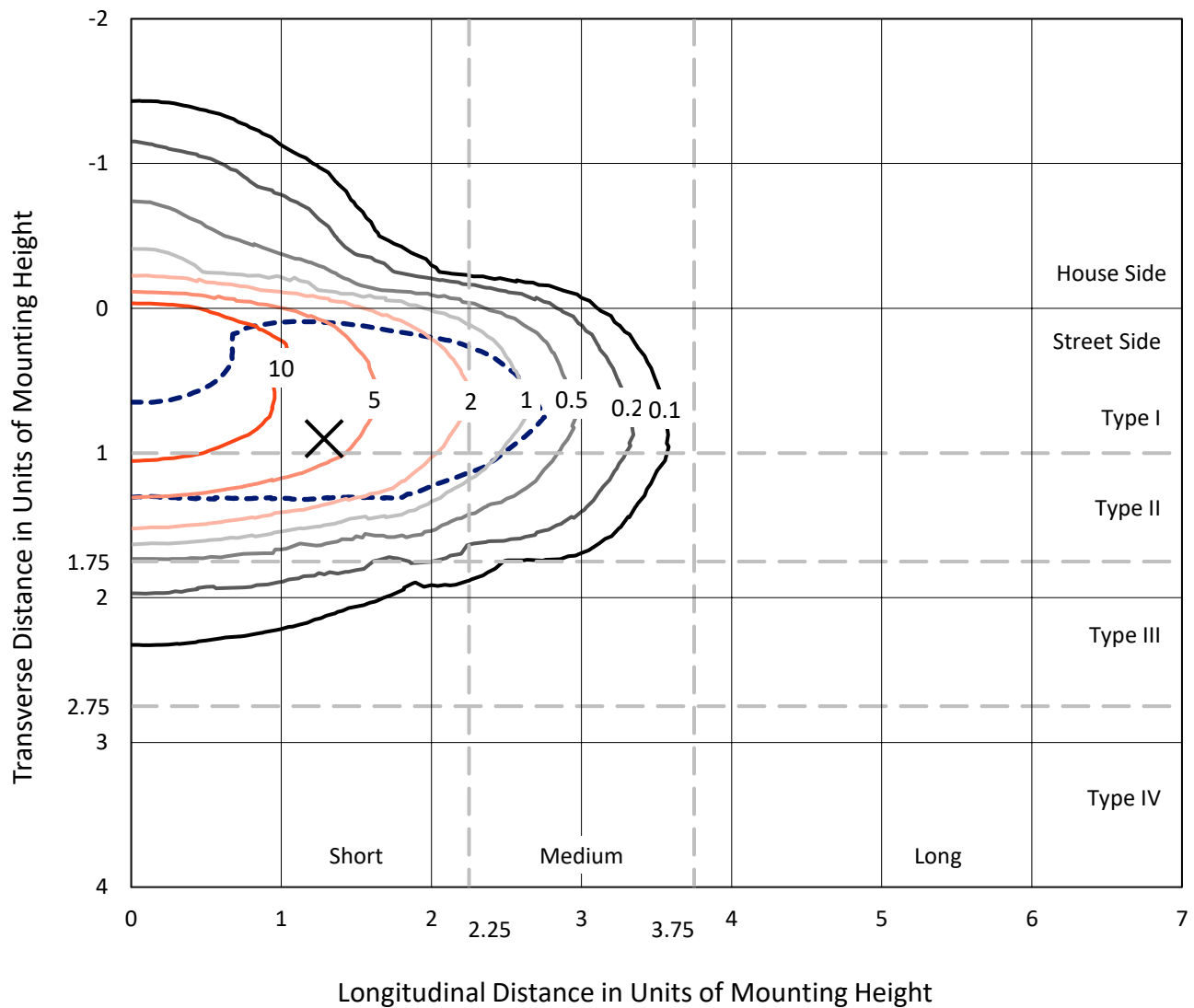
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

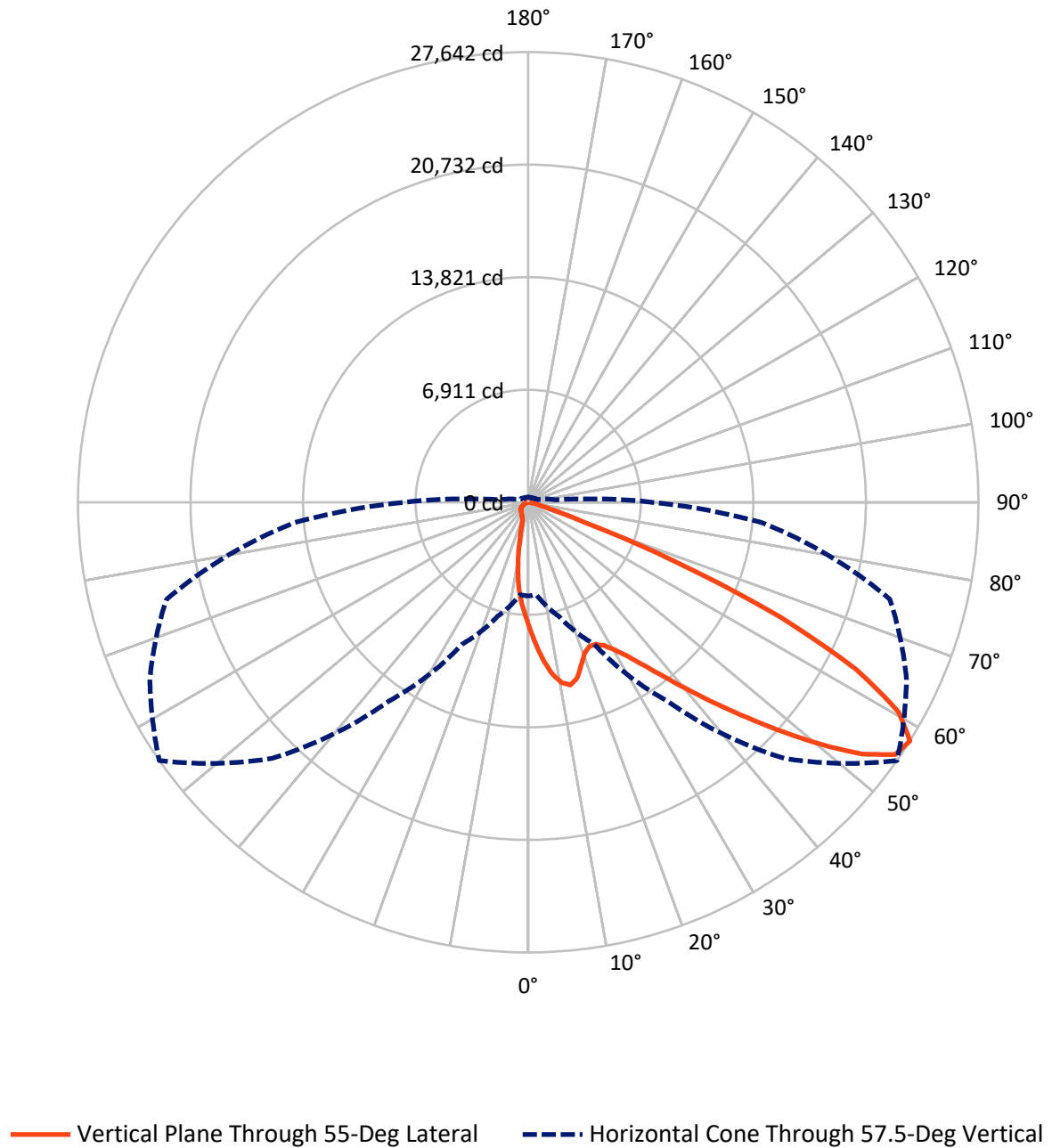
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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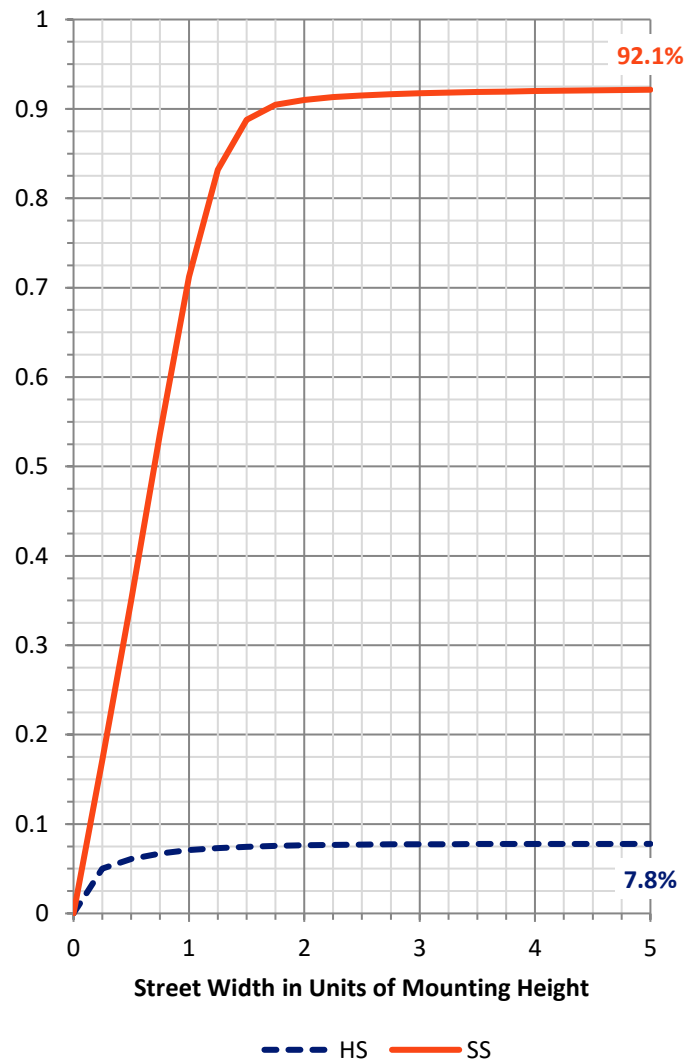
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2473.3	0.0	2473.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29196.7	0.0	29196.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	31670.0	0.0	31670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.1	2.2
10°-20°	1715.2	5.4
20°-30°	2744.3	8.7
30°-40°	4644.9	14.7
40°-50°	7626.0	24.1
50°-60°	8381.5	26.5
60°-70°	4807.6	15.2
70°-80°	982.3	3.1
80°-90°	58.0	0.2
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°	31670.0	100.0
0°-180°	31670.0	100.0

Coefficient of Utilization



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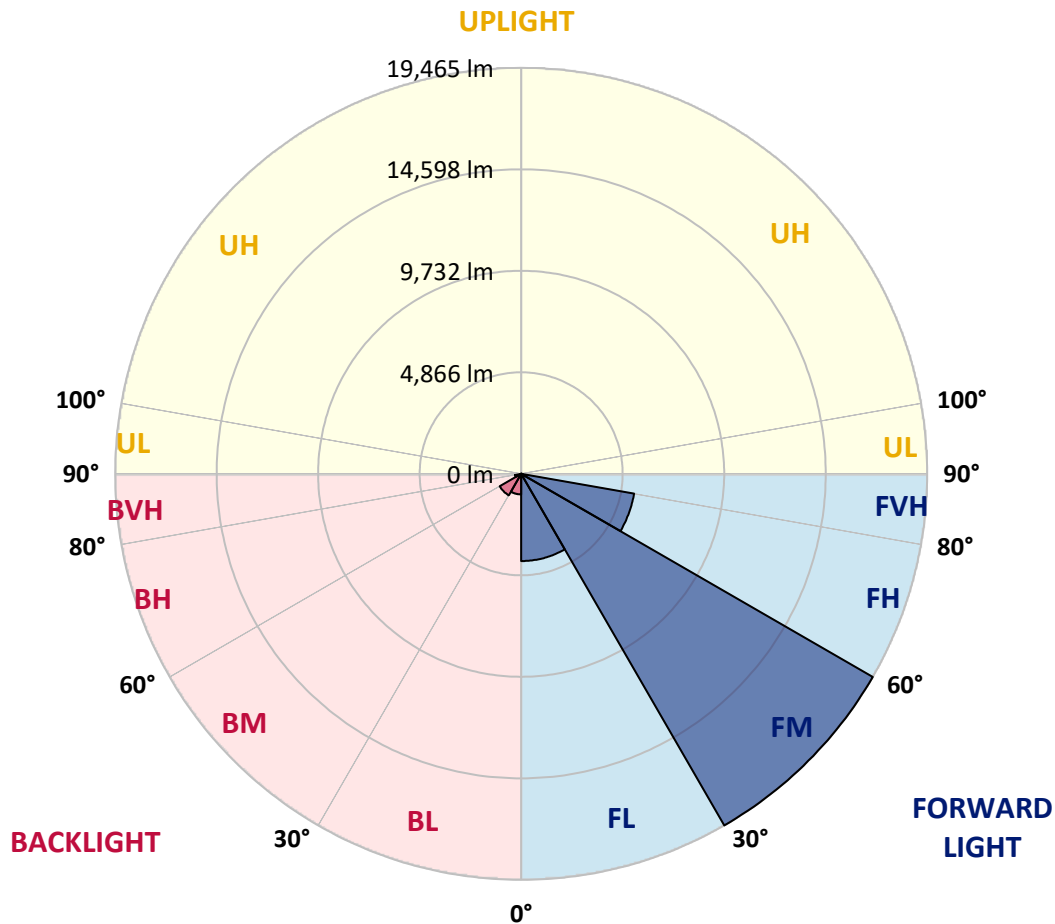
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4182.2	13.2			
FM	(30°-60°)	19464.6	61.5			
FH	(60°-80°)	5495.8	17.4			G3/7500
FVH	(80°-90°)	54.0	0.2			G1/100
BL	(0°-30°)	987.4	3.1	B2/1000		
BM	(30°-60°)	1187.8	3.8	B2/2500		
BH	(60°-80°)	294.1	0.9	B1/500		G1/500
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7
2.5°	9469.3	9350.2	9332.6	9309.2	9082.6	8912.8	8666.7	8397.2	8094.5	7786.0	7649.3
5°	10939.8	10846.1	10828.5	10719.1	10461.4	10172.3	9734.9	9182.2	8617.9	7953.9	7668.8
7.5°	11224.9	11207.3	11287.4	11283.5	11248.3	11019.9	10650.8	9992.7	9145.1	8160.9	7719.6
10°	9953.6	9998.5	10236.8	10445.7	11010.1	11338.2	11258.1	10715.2	9688.0	8397.2	7776.2
12.5°	8795.6	8742.9	8912.8	9149.0	9805.2	10781.6	11510.0	11318.6	10309.0	8664.7	7860.2
15°	8069.1	8047.6	8143.3	8252.7	8752.6	9736.8	11217.1	11808.8	10906.6	8981.1	7987.1
17.5°	7836.7	7819.2	7848.5	7875.8	8200.0	8961.6	10519.9	12109.5	11478.8	9342.4	8127.7
20°	8026.2	8002.7	7998.8	7977.3	8112.1	8631.5	9889.2	12131.0	11992.4	9670.5	8248.8
22.5°	8578.8	8551.5	8455.8	8369.9	8381.6	8676.5	9608.0	11916.2	12379.0	9977.0	8324.9
25°	9580.6	9535.7	9336.5	9047.5	8863.9	8988.9	9650.9	11633.1	12748.1	10217.2	8287.8
27.5°	10834.3	10775.8	10519.9	10090.3	9670.5	9518.1	9961.4	11437.8	13054.7	10400.8	8207.8
30°	12062.7	11986.5	11734.6	11400.7	10787.5	10307.1	10521.9	11523.7	13419.9	10592.2	8102.3
32.5°	13388.7	13316.4	12982.5	12568.5	12060.7	11414.3	11289.4	11943.6	13867.1	10859.7	8028.1
35°	15066.1	14952.9	14478.3	13914.0	13375.0	12720.8	12328.3	12668.1	14462.7	11267.9	8069.1
37.5°	16976.0	16823.7	16312.1	15532.9	14829.8	14097.5	13593.7	13664.0	15335.6	11814.7	8196.1
40°	18776.5	18637.9	18165.3	17431.0	16548.3	15659.8	15122.8	14966.5	16540.5	12480.6	8418.7
42.5°	19856.5	19731.5	19532.3	19221.8	18477.7	17571.6	16894.0	16556.2	17966.1	13277.3	8690.1
45°	19917.0	19807.6	20075.2	20436.4	20290.0	19686.6	18860.5	18241.5	19397.5	14025.3	8971.3
47.5°	18948.4	18874.2	19686.6	20948.1	21576.9	21830.8	21069.2	19786.2	20579.0	14562.3	9086.6
50°	16308.1	16280.8	17952.4	20268.5	22067.1	23709.4	23398.9	21223.4	21494.9	14839.6	8977.2
52.5°	14140.5	14040.9	15015.4	18093.0	21354.3	24697.5	25675.9	22633.4	22135.4	14892.3	8721.4
55°	10725.0	10637.1	11859.6	14453.0	19055.8	24346.0	27341.7	24088.3	22594.3	14757.6	8262.5
57.5°	5753.1	5698.4	7243.1	9619.7	14896.2	22237.0	27642.4	25627.1	22981.0	14400.2	7620.0
60°	2239.9	2230.1	2808.2	4667.3	9053.4	18091.1	26125.1	26550.8	23223.1	13960.8	7082.9
62.5°	1355.3	1384.6	1478.3	2095.4	3999.4	11238.6	22627.5	25500.2	23385.2	13558.6	6639.6
65°	1120.9	1122.9	1134.6	1439.2	1915.7	4702.4	17034.6	22043.6	22984.9	12841.9	6010.8
67.5°	960.8	978.4	1023.3	1142.4	1351.4	2062.2	9807.2	17075.6	20549.7	11174.1	5030.5
70°	757.7	781.1	837.8	939.3	1042.8	1290.8	3624.5	11361.6	15698.9	8422.6	3804.1
72.5°	638.6	636.6	665.9	763.6	828.0	908.1	1394.3	6366.3	9123.7	4020.9	1882.5
75°	494.1	513.6	550.7	638.6	677.6	658.1	755.7	2325.8	3269.1	1218.6	640.5
77.5°	386.7	402.3	435.5	521.4	560.5	466.7	435.5	831.9	1050.6	437.4	289.0
80°	173.8	187.5	296.8	384.7	457.0	322.2	236.3	425.7	466.7	199.2	146.5
82.5°	31.2	52.7	173.8	203.1	234.3	209.0	123.0	220.7	228.5	80.1	50.8
85°	2.0	3.9	60.5	74.2	93.7	68.3	37.1	87.9	76.2	27.3	19.5
87.5°	0.0	0.0	0.0	2.0	2.0	9.8	11.7	15.6	11.7	9.8	7.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7	7631.7
2.5°	7508.7	7231.4	6961.9	6741.2	6612.3	6393.6	6249.1	6225.6	6165.1	6217.8
5°	7364.2	6868.1	6366.3	5917.1	5548.0	5071.5	4716.1	4565.7	4434.9	4479.8
7.5°	7295.8	6512.7	5731.6	4964.1	4175.2	3413.6	2847.2	2610.9	2431.3	2456.7
10°	7204.0	6143.6	4919.2	3747.5	2691.0	1939.2	1548.6	1404.1	1324.0	1326.0
12.5°	7133.7	5702.3	3976.0	2540.6	1638.4	1238.1	1117.0	1081.9	1058.4	1060.4
15°	7098.6	5182.8	3044.5	1693.1	1171.7	1048.7	1019.4	1003.8	988.1	986.2
17.5°	7040.0	4604.8	2228.2	1236.1	1025.2	982.3	956.9	939.3	919.8	915.9
20°	6952.1	3948.6	1628.7	1044.8	960.8	927.6	892.4	869.0	845.6	841.7
22.5°	6790.0	3255.4	1251.8	966.7	913.9	876.8	833.9	806.5	783.1	779.2
25°	6489.3	2605.1	1054.5	917.8	872.9	828.0	781.1	744.0	722.5	718.6
27.5°	6108.5	2046.6	956.9	872.9	820.2	779.2	726.5	691.3	671.8	667.9
30°	5659.3	1575.9	900.3	822.1	757.7	722.5	675.7	646.4	634.7	634.7
32.5°	5175.0	1259.6	876.8	771.4	703.0	664.0	626.9	615.1	611.2	609.3
35°	4720.0	1093.6	865.1	730.4	654.2	617.1	601.5	603.4	611.2	611.2
37.5°	4315.8	1040.9	859.2	701.1	611.2	578.0	587.8	605.4	597.6	597.6
40°	3950.6	1046.7	855.3	679.6	576.1	556.6	576.1	562.4	542.9	540.9
42.5°	3671.3	1095.5	847.5	662.0	554.6	540.9	533.1	511.6	509.7	513.6
45°	3468.2	1138.5	845.6	654.2	531.2	505.8	496.0	474.5	513.6	523.4
47.5°	3228.0	1138.5	845.6	626.9	492.1	482.4	466.7	443.3	482.4	492.1
50°	2917.5	1066.2	812.4	595.6	460.9	455.0	427.7	398.4	390.6	396.4
52.5°	2525.0	935.4	728.4	552.7	429.6	417.9	384.7	363.2	357.4	357.4
55°	2077.8	783.1	615.1	490.2	396.4	374.9	351.5	341.7	335.9	332.0
57.5°	1689.2	642.5	494.1	435.5	365.2	337.8	330.0	318.3	308.5	302.7
60°	1386.5	505.8	408.1	386.7	333.9	308.5	306.6	291.0	265.6	261.7
62.5°	1070.2	371.0	343.7	335.9	302.7	281.2	277.3	246.1	207.0	199.2
65°	755.7	289.0	277.3	294.9	269.5	250.0	240.2	193.3	152.3	146.5
67.5°	531.2	242.2	218.7	257.8	234.3	209.0	203.1	164.0	126.9	123.0
70°	378.9	197.2	179.7	220.7	187.5	183.6	171.8	136.7	103.5	99.6
72.5°	267.5	150.4	138.7	191.4	128.9	158.2	140.6	105.5	78.1	74.2
75°	197.2	107.4	97.6	111.3	93.7	119.1	99.6	70.3	48.8	46.9
77.5°	144.5	68.3	58.6	54.7	54.7	74.2	54.7	29.3	21.5	19.5
80°	101.5	31.2	27.3	23.4	21.5	17.6	7.8	3.9	2.0	2.0
82.5°	60.5	13.7	13.7	9.8	5.9	0.0	0.0	0.0	0.0	0.0
85°	13.7	5.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	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

(END OF REPORT)