

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: P458798

Luminaire Tested: **GALN-SA3B-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16193 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

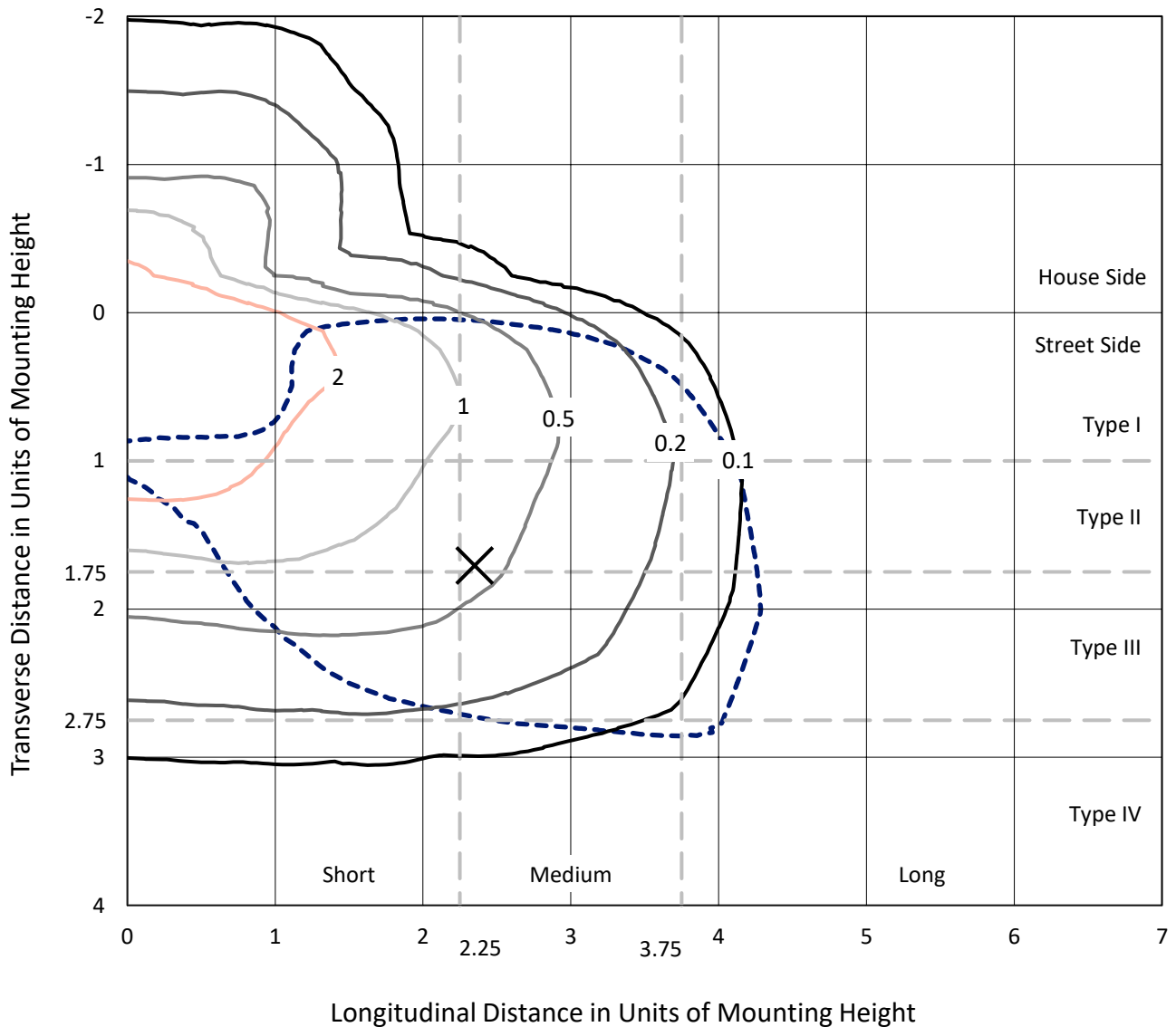
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

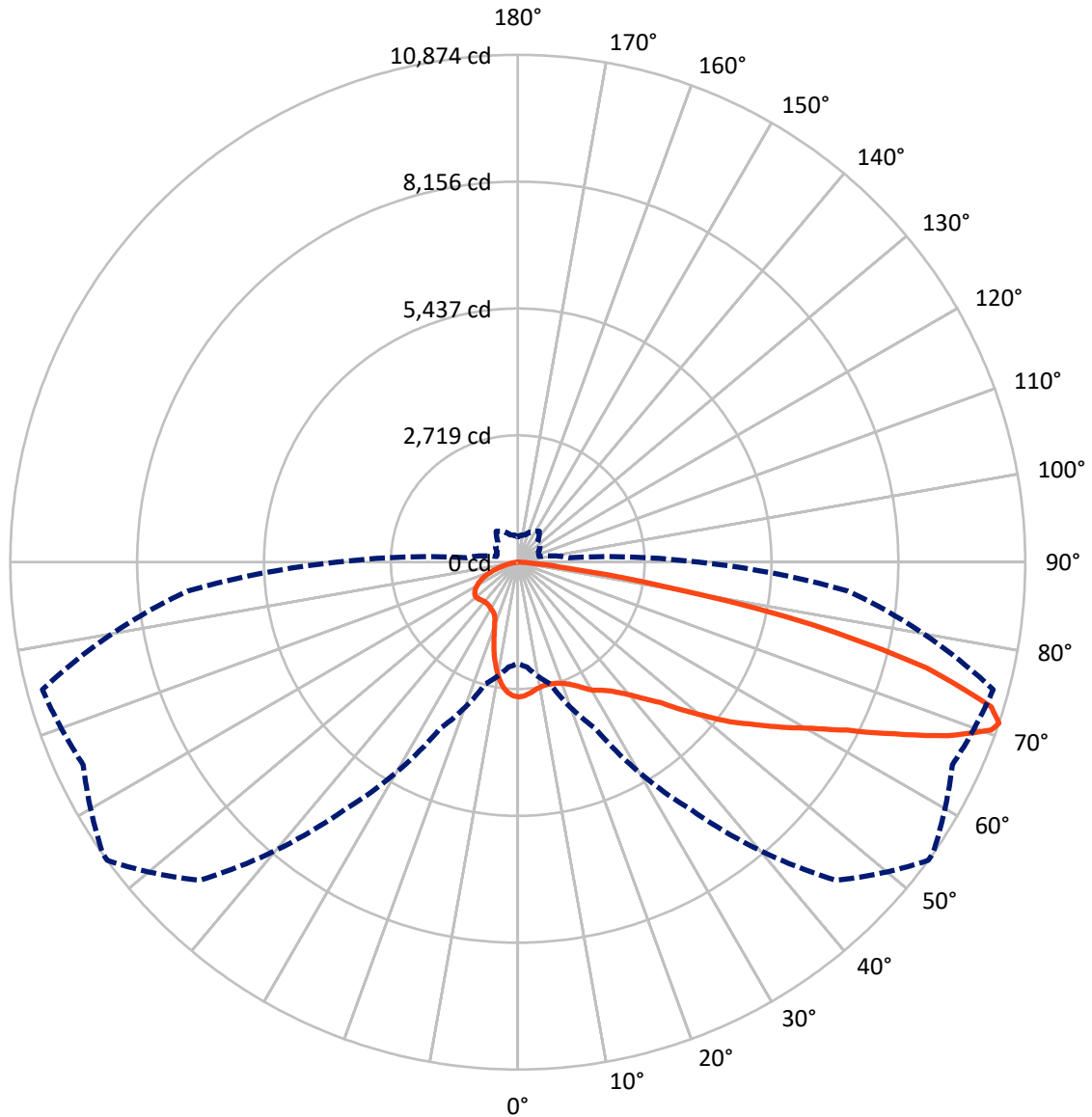
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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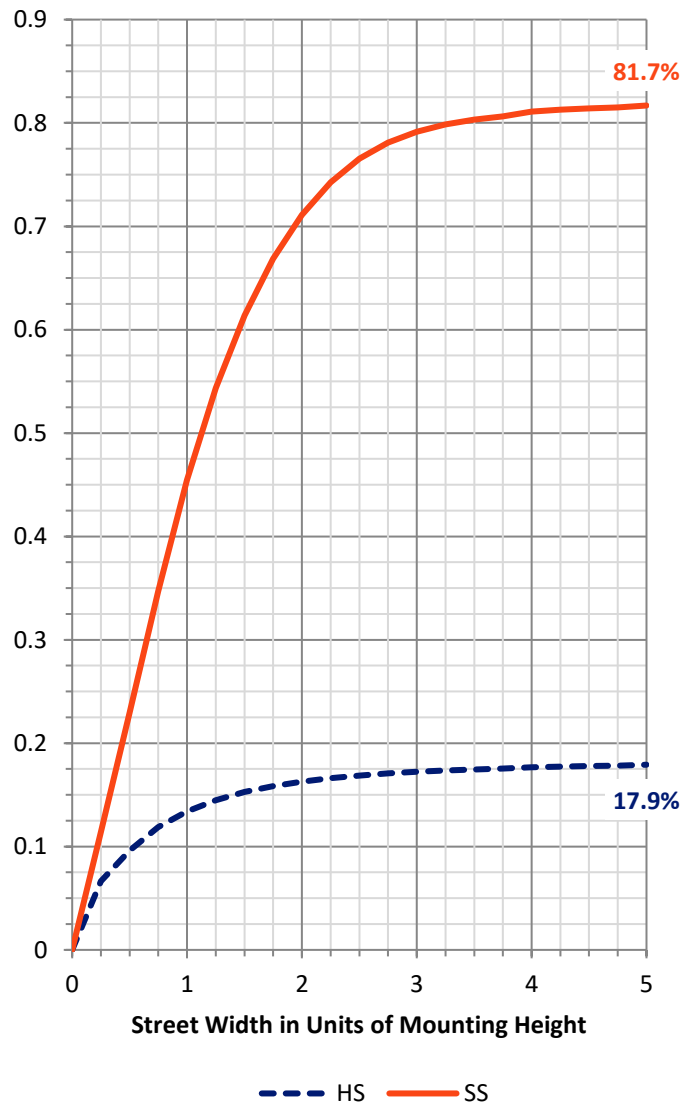
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2923.6	0.0	2923.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13269.5	0.0	13269.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	16193.0	0.0	16193.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	1.6
10°-20°	679.8	4.2
20°-30°	1131.9	7.0
30°-40°	1673.8	10.3
40°-50°	2357.5	14.6
50°-60°	3156.9	19.5
60°-70°	3979.0	24.6
70°-80°	2717.6	16.8
80°-90°	239.0	1.5
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°	16193.0	100.0
0°-180°	16193.0	100.0



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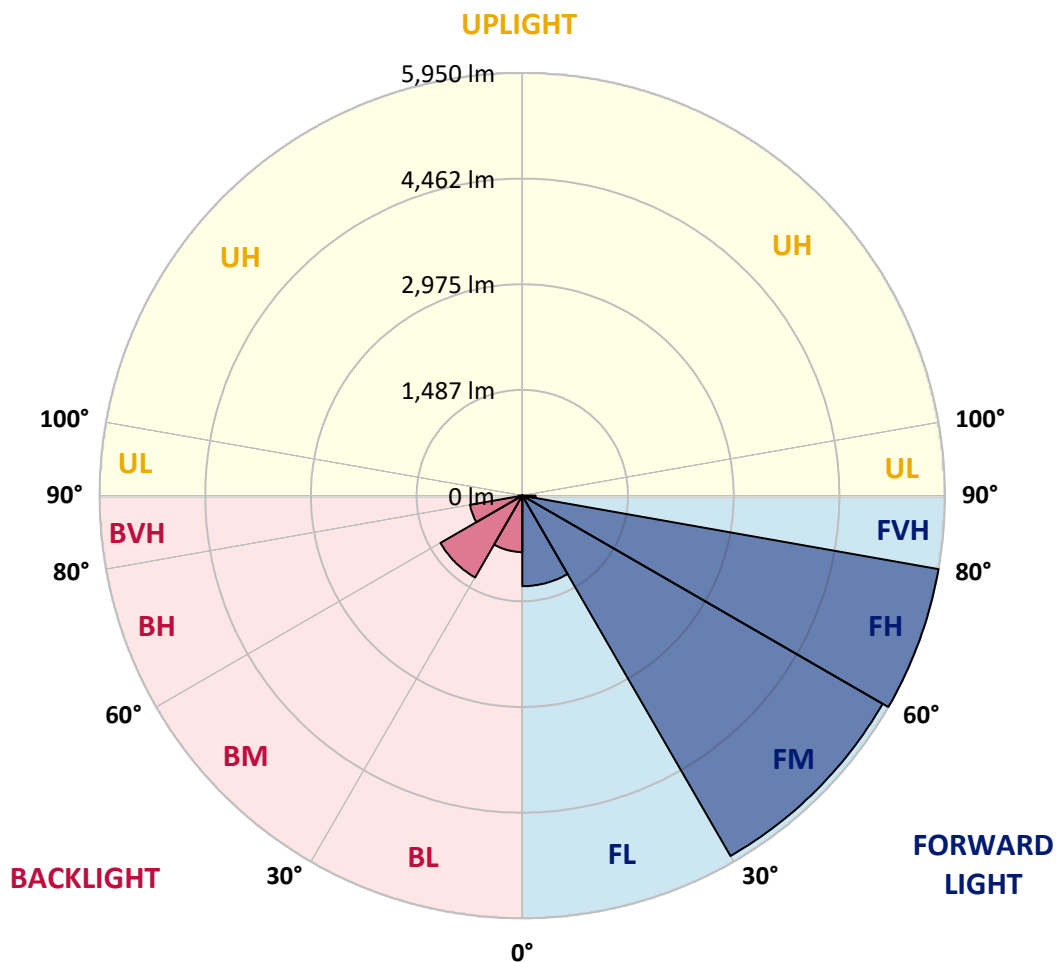
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.7	7.9			
FM	(30°-60°)	5858.0	36.2			
FH	(60°-80°)	5949.9	36.7			G3/7500
FVH	(80°-90°)	186.8	1.2			G2/225
BL	(0°-30°)	794.6	4.9	B2/1000		
BM	(30°-60°)	1330.1	8.2	B2/2500		
BH	(60°-80°)	746.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	52.2	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2791.1	2804.2	2807.7	2816.5	2834.8	2849.7	2864.6	2862.8	2883.8	2892.6	2900.4
5°	2666.9	2670.4	2683.5	2701.0	2733.4	2774.5	2814.7	2815.6	2867.2	2908.3	2928.4
7.5°	2575.9	2587.3	2596.1	2614.4	2648.5	2693.1	2757.0	2762.2	2854.1	2935.4	2978.3
10°	2516.5	2529.6	2539.2	2561.9	2596.1	2645.9	2715.0	2724.6	2844.5	2978.3	3053.5
12.5°	2462.2	2475.3	2484.1	2513.8	2558.4	2619.7	2697.5	2708.9	2848.0	3028.1	3135.7
15°	2495.5	2506.0	2502.5	2511.2	2540.9	2610.9	2704.5	2715.9	2861.1	3076.3	3217.1
17.5°	2643.3	2652.0	2623.2	2589.9	2575.9	2627.5	2726.4	2738.6	2887.3	3126.1	3300.2
20°	2861.1	2884.7	2821.7	2747.4	2680.0	2687.0	2771.9	2785.0	2924.1	3176.0	3385.0
22.5°	3144.5	3162.0	3085.0	2962.5	2838.3	2774.5	2840.1	2848.0	2979.2	3240.7	3477.7
25°	3477.7	3488.2	3381.5	3224.1	3044.8	2924.1	2933.7	2947.7	3070.1	3314.2	3560.0
27.5°	3801.4	3834.6	3711.3	3518.8	3282.7	3081.5	3062.3	3071.0	3169.0	3355.3	3616.8
30°	4185.3	4182.7	4052.4	3829.4	3526.7	3252.9	3183.8	3182.1	3222.3	3375.4	3657.9
32.5°	4491.5	4527.3	4399.6	4156.5	3805.7	3430.5	3267.8	3264.3	3263.4	3410.4	3719.1
35°	4839.6	4844.9	4727.7	4482.7	4107.5	3653.5	3385.0	3367.5	3347.4	3485.6	3802.2
37.5°	5151.0	5175.5	5067.9	4793.3	4404.0	3885.3	3546.0	3534.6	3473.4	3615.9	3935.2
40°	5394.2	5412.5	5347.8	5086.3	4696.2	4135.5	3750.6	3729.6	3655.3	3829.4	4112.7
42.5°	5473.8	5511.4	5536.7	5408.2	5032.0	4432.0	4002.5	3976.3	3919.4	4153.0	4317.4
45°	5479.9	5539.4	5673.2	5679.3	5369.7	4787.1	4296.4	4278.1	4273.7	4567.6	4605.2
47.5°	5433.5	5493.9	5718.7	5840.2	5670.6	5145.7	4720.7	4691.8	4694.4	5080.1	4928.0
50°	5321.6	5393.3	5666.2	5943.5	5905.8	5518.4	5168.5	5158.9	5213.1	5665.3	5263.0
52.5°	5110.8	5197.4	5612.0	6008.2	6080.8	5839.4	5677.6	5650.4	5787.8	6300.3	5629.4
55°	4527.3	4657.7	5413.4	6044.0	6247.0	6146.4	6135.9	6184.9	6366.8	6993.1	6032.7
57.5°	4223.0	4320.9	4982.2	6050.2	6456.9	6503.3	6671.2	6683.4	7001.8	7728.7	6488.4
60°	4056.8	4143.4	4746.0	6009.9	6749.9	6945.0	7218.7	7262.5	7622.0	8525.5	6960.7
62.5°	3911.6	3985.9	4604.3	5870.9	7080.5	7600.1	7928.1	7949.1	8326.1	9405.4	7426.9
65°	3569.6	3654.4	4319.2	5731.8	7365.7	8418.8	8869.3	8844.8	9075.7	10164.7	7719.1
67.5°	3108.6	3216.2	3786.5	5251.6	7506.5	9313.6	9929.4	9898.8	9815.7	10662.4	7803.0
70°	2520.0	2577.7	3105.1	4421.5	6944.1	9783.3	10766.4	10734.1	10274.0	10728.0	7405.9
71°	2168.3	2258.4	2703.6	3927.3	6476.1	9639.9	10874.0	10865.3	10274.9	10546.9	7106.8
72.5°	1692.5	1747.6	2141.2	3043.0	5504.4	8824.7	10608.1	10641.4	10051.8	10044.0	6490.1
75°	1070.6	1095.1	1343.5	1791.3	3020.3	6249.6	9055.6	9145.7	8925.2	8221.1	4826.5
77.5°	621.9	653.4	804.7	1055.7	1305.0	3392.0	6479.6	6577.6	6201.5	4526.5	1975.9
80°	362.1	397.1	530.1	613.2	599.2	1258.7	3299.3	3466.4	2685.3	1143.2	554.5
82.5°	201.2	224.8	372.6	373.5	319.3	411.1	1038.2	1086.4	766.2	461.0	226.5
85°	146.1	165.3	240.5	217.8	153.1	176.7	361.2	378.7	309.6	194.2	73.5
87.5°	51.6	73.5	132.1	105.0	42.0	36.7	104.1	84.8	78.7	54.2	16.6
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°	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2904.8	2906.6	2897.8	2882.1	2866.3	2846.2	2823.5	2806.0	2798.1	2797.2	2796.4
5°	2936.3	2940.7	2907.4	2858.5	2804.2	2737.8	2680.9	2616.2	2599.6	2573.3	2581.2
7.5°	2987.0	2984.4	2918.8	2814.7	2687.9	2547.1	2428.1	2359.0	2287.3	2267.2	2268.0
10°	3059.6	3043.0	2918.8	2725.5	2513.8	2304.8	2138.6	2033.6	1976.8	1929.5	1912.1
12.5°	3136.6	3094.6	2890.8	2600.4	2289.9	2033.6	1855.2	1713.5	1676.8	1638.3	1639.2
15°	3210.1	3140.1	2835.7	2424.6	2048.5	1744.1	1570.9	1486.1	1474.7	1479.1	1478.2
17.5°	3276.6	3172.5	2751.7	2228.7	1766.9	1495.7	1403.9	1410.0	1440.6	1462.5	1465.1
20°	3343.9	3191.7	2626.7	1966.3	1501.0	1345.3	1348.8	1396.9	1443.2	1473.0	1477.3
22.5°	3407.8	3200.5	2479.7	1712.6	1308.5	1281.4	1333.0	1384.6	1430.1	1459.0	1463.3
25°	3449.7	3180.3	2271.5	1447.6	1214.1	1258.7	1312.9	1356.6	1395.1	1424.9	1431.9
27.5°	3461.1	3115.6	2013.5	1233.3	1170.3	1236.8	1286.7	1319.0	1348.8	1376.7	1382.0
30°	3455.0	3020.3	1730.1	1107.3	1145.0	1211.4	1249.9	1273.5	1309.4	1331.3	1335.6
32.5°	3445.4	2909.2	1434.5	1040.0	1124.0	1187.8	1210.6	1231.6	1230.7	1221.9	1228.1
35°	3448.9	2776.2	1194.8	999.8	1105.6	1170.3	1189.6	1163.3	1088.1	1084.6	1081.1
37.5°	3467.2	2645.0	1020.8	971.8	1096.0	1167.7	1178.2	1057.5	991.0	960.4	952.5
40°	3514.5	2492.0	906.2	950.8	1095.1	1187.8	1126.6	1004.1	876.4	817.0	812.6
42.5°	3577.4	2341.5	836.2	937.7	1105.6	1218.4	1105.6	928.9	789.8	754.8	749.6
45°	3671.0	2169.2	797.7	931.5	1121.3	1229.8	1098.6	873.8	754.8	726.9	726.9
47.5°	3776.9	2004.8	776.7	927.2	1141.5	1221.9	1036.5	856.3	738.2	741.7	758.3
50°	3881.8	1862.2	761.0	917.5	1159.0	1217.6	1011.1	855.4	742.6	787.2	817.0
52.5°	4003.4	1761.6	741.7	901.8	1159.0	1189.6	1003.3	872.9	754.8	768.0	781.1
55°	4150.4	1730.1	717.2	867.7	1138.0	1119.6	998.9	898.3	763.6	733.0	738.2
57.5°	4344.5	1780.9	693.6	824.8	1089.9	1047.0	997.1	905.3	743.5	718.1	712.9
60°	4570.2	1881.4	686.6	781.1	1024.3	984.9	986.6	885.2	715.5	689.2	693.6
62.5°	4728.5	1941.8	682.3	747.9	952.5	916.7	961.3	860.7	703.2	680.5	684.9
65°	4728.5	1868.3	642.0	697.1	859.8	834.4	930.7	830.1	687.5	661.3	656.9
67.5°	4549.2	1654.0	580.8	621.0	757.5	740.9	887.8	793.3	663.9	643.8	633.3
70°	4082.1	1254.3	503.8	531.8	628.0	642.9	832.7	743.5	624.5	600.0	584.3
71°	3876.6	1092.5	471.5	486.3	578.2	600.0	806.5	722.5	607.0	572.0	544.1
72.5°	3480.4	920.2	422.5	428.6	494.2	533.6	751.4	682.3	573.8	523.9	492.4
75°	2644.2	671.8	340.3	336.8	365.6	423.3	635.9	607.9	502.9	435.6	417.2
77.5°	1142.3	365.6	254.5	257.2	248.4	321.0	500.3	522.2	431.2	354.2	337.6
80°	346.4	210.8	174.1	177.6	166.2	215.2	352.5	409.4	346.4	275.5	252.8
82.5°	177.6	126.0	119.0	117.2	105.8	121.6	213.4	279.9	247.5	172.3	152.2
85°	77.0	67.4	58.6	56.9	49.9	43.7	76.1	139.9	131.2	96.2	91.8
87.5°	19.2	17.5	11.4	10.5	6.1	0.9	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)