

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: P528582

Luminaire Tested: **GALN-SA3C-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14219 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 160
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

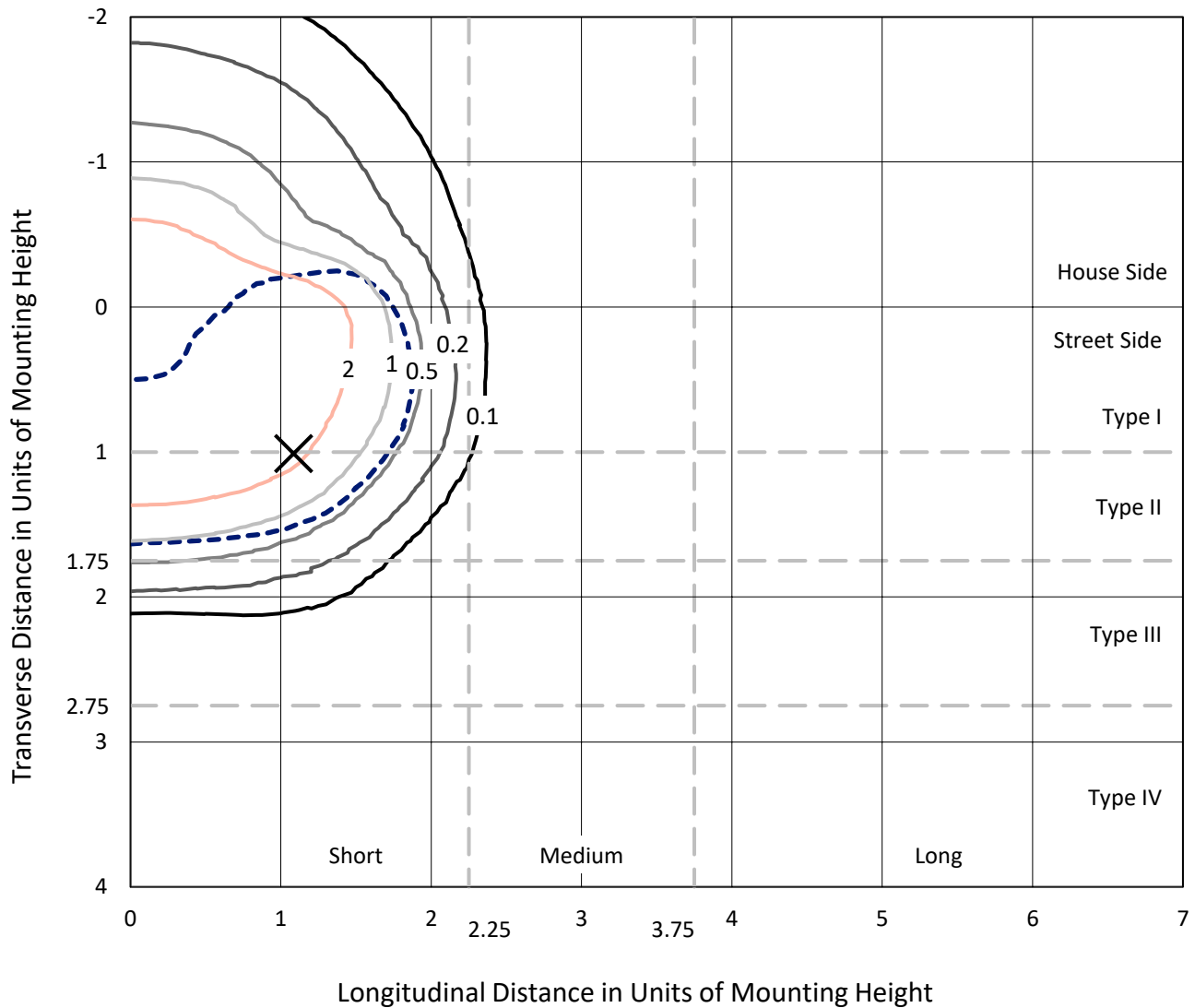


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Iso-Footcandle Lines of Horizontal Illumination

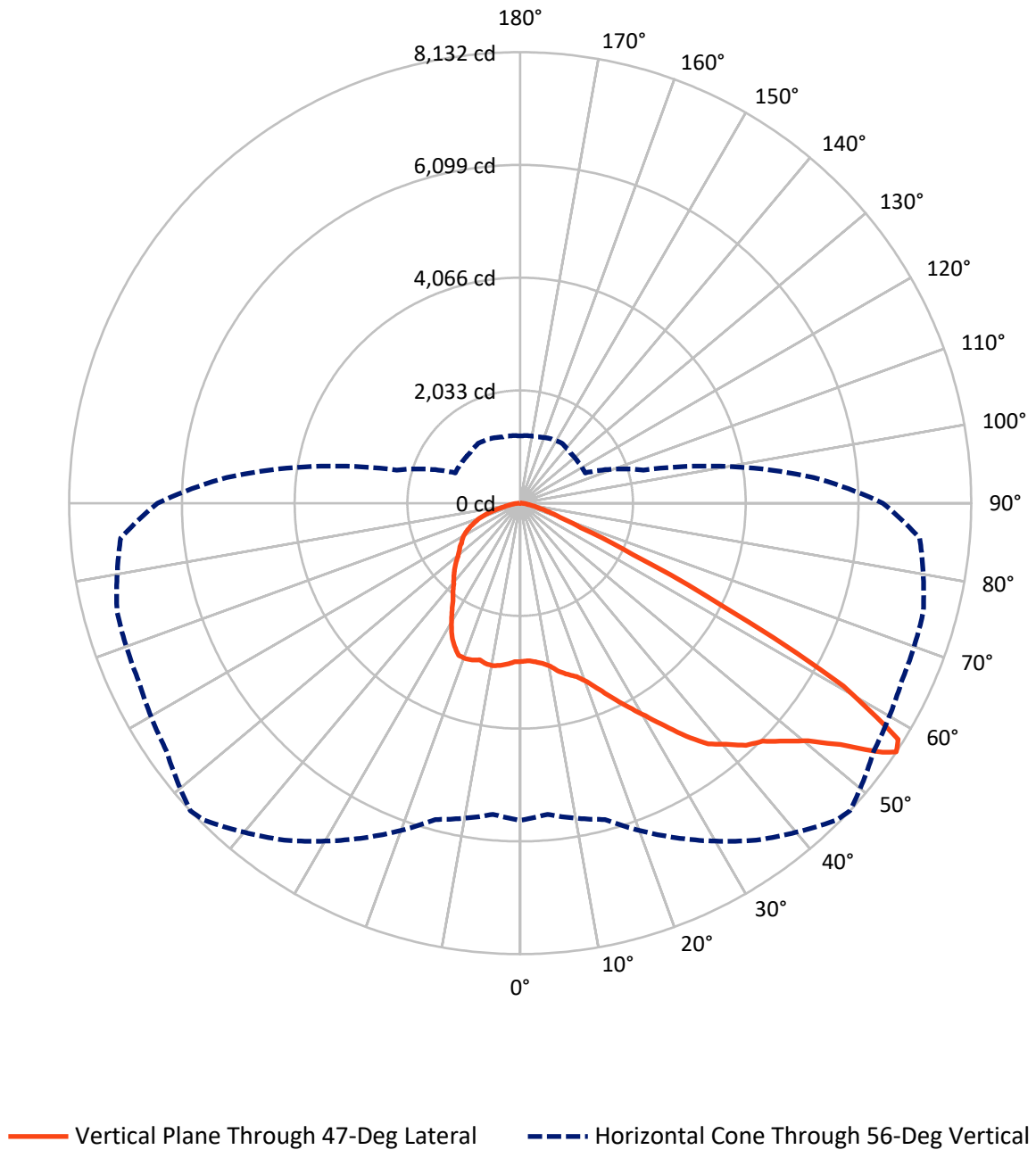
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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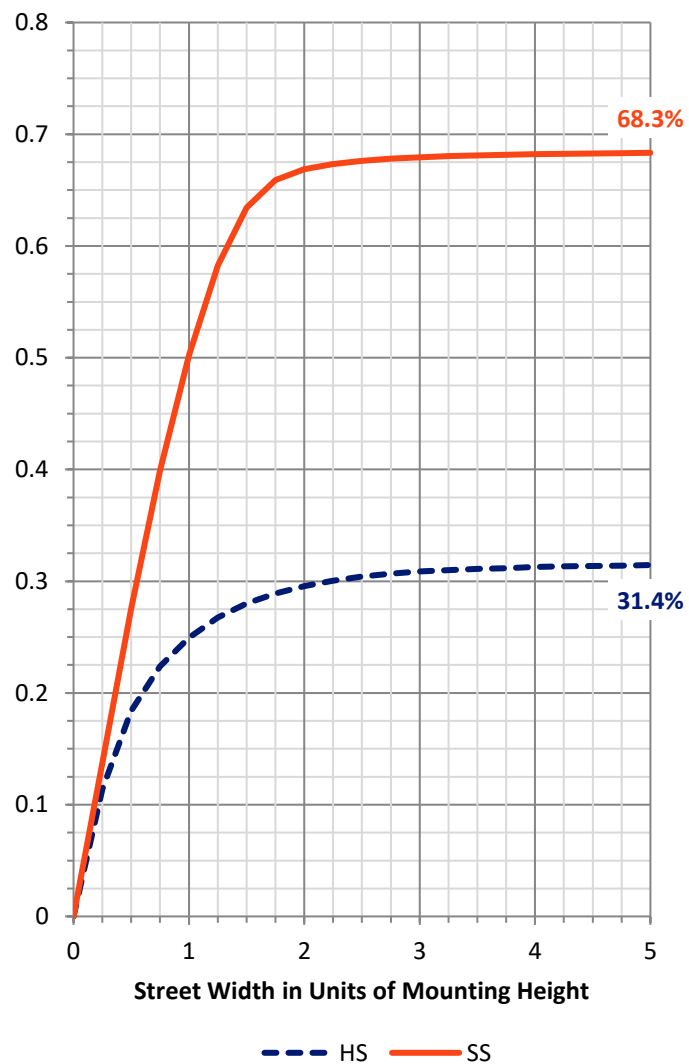
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4505.8	0.0	4505.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9713.2	0.0	9713.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	14219.0	0.0	14219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	2.0
10°-20°	877.9	6.2
20°-30°	1551.9	10.9
30°-40°	2330.9	16.4
40°-50°	3198.9	22.5
50°-60°	3811.1	26.8
60°-70°	1630.9	11.5
70°-80°	461.5	3.2
80°-90°	77.7	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°	14219.0	100.0
0°-180°	14219.0	100.0

Coefficient of Utilization



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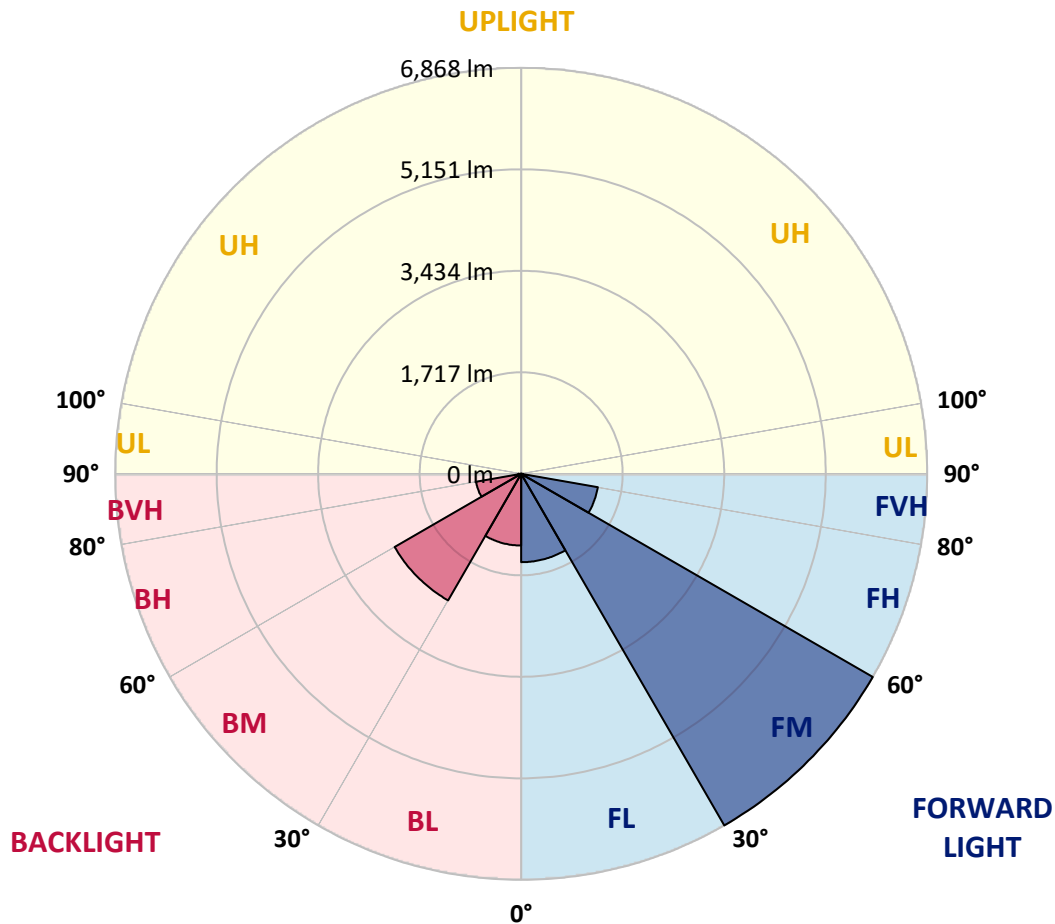
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1494.9	10.5			
FM	(30°-60°)	6868.1	48.3			
FH	(60°-80°)	1317.2	9.3			G1/1800
FVH	(80°-90°)	33.0	0.2			G1/100
BL	(0°-30°)	1213.2	8.5	B3/2500		
BM	(30°-60°)	2472.7	17.4	B2/2500		
BH	(60°-80°)	775.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	44.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2
2.5°	2845.3	2839.8	2836.2	2865.2	2854.4	2856.2	2845.3	2856.2	2863.4	2847.1	2870.7
5°	2839.8	2856.2	2841.7	2850.7	2874.3	2867.0	2874.3	2896.1	2890.6	2885.2	2877.9
7.5°	2890.6	2892.4	2903.3	2906.9	2914.2	2906.9	2917.8	2937.8	2932.3	2901.5	2905.1
10°	2963.2	2966.8	2968.6	2988.5	3001.2	3003.1	2990.4	2972.2	2970.4	3012.1	2983.1
12.5°	3046.6	3037.5	3059.3	3066.5	3081.0	3097.4	3113.7	3075.6	3099.2	3101.0	3066.5
15°	3168.1	3177.1	3151.8	3151.8	3157.2	3159.0	3204.3	3186.2	3182.6	3162.6	3177.1
17.5°	3349.4	3287.8	3285.9	3260.6	3256.9	3271.4	3287.8	3302.3	3351.2	3311.3	3233.4
20°	3481.8	3496.3	3443.7	3412.9	3418.3	3451.0	3434.7	3499.9	3534.4	3469.1	3392.9
22.5°	3715.7	3666.8	3679.5	3610.6	3616.0	3650.5	3648.6	3715.7	3735.7	3632.3	3521.7
25°	3873.5	3860.8	3871.7	3817.3	3824.5	3851.7	3895.3	4005.9	3973.2	3859.0	3603.3
27.5°	4103.8	4078.4	4069.4	4049.4	4042.2	4114.7	4165.5	4283.3	4259.8	4092.9	3748.4
30°	4339.6	4323.2	4332.3	4250.7	4279.7	4433.9	4448.4	4609.8	4598.9	4305.1	3909.8
32.5°	4502.8	4511.8	4528.2	4482.8	4611.6	4734.9	4783.8	4967.0	4976.1	4669.6	4221.7
35°	4765.7	4734.9	4744.0	4796.5	4856.4	5081.3	5161.0	5282.5	5358.7	5052.2	4520.9
37.5°	4930.7	4963.4	4925.3	5008.7	5164.7	5434.9	5507.4	5632.5	5712.3	5429.4	4928.9
40°	5188.2	5135.7	5162.9	5222.7	5382.3	5734.1	5714.1	5842.9	5868.3	5750.4	5309.7
42.5°	5465.7	5440.3	5402.2	5538.2	5672.4	5928.1	5968.0	5908.2	6036.9	6064.1	5853.8
45°	5797.6	5828.4	5833.8	5837.5	5955.3	6178.4	6124.0	6071.4	6220.1	6417.8	6191.1
47.5°	6105.8	6007.9	6078.6	6176.6	6343.4	6345.2	6408.7	6283.6	6441.3	6617.2	6495.7
50°	6209.2	6162.1	6256.4	6441.3	6698.8	6726.0	6733.3	6555.6	6637.2	6776.8	6600.9
52.5°	6169.3	6153.0	6394.2	6680.7	7057.9	7195.7	7232.0	7012.6	7057.9	6994.4	6833.0
55°	5978.9	6027.9	6270.9	6854.8	7433.3	7859.4	7928.4	7650.9	7362.6	7411.5	7233.8
56°	5717.8	5632.5	5904.6	6657.1	7417.0	8075.2	8131.5	7785.1	7589.2	7525.8	7230.2
57.5°	4850.9	4740.3	5097.6	5989.8	7005.3	7993.6	8035.3	7841.3	7551.2	7422.4	6702.5
60°	2839.8	2894.2	3347.6	4131.0	5404.0	6553.8	6693.4	6834.8	6640.8	6064.1	4988.8
62.5°	1371.0	1336.5	1661.1	2368.4	3293.2	4183.6	4141.9	4539.0	4756.6	4308.7	3149.9
65°	718.1	714.5	906.7	1293.0	1809.8	2197.9	2236.0	2450.0	2749.2	2219.6	1599.5
67.5°	527.7	542.2	638.3	908.5	1164.2	1187.8	1182.4	1289.4	1318.4	1115.3	982.9
70°	413.5	420.7	491.4	690.9	866.8	776.2	759.8	772.5	857.8	894.0	850.5
72.5°	299.2	306.5	366.3	466.1	542.2	529.5	540.4	611.1	716.3	754.4	709.1
75°	199.5	204.9	237.6	284.7	321.0	346.4	366.3	447.9	545.8	567.6	545.8
77.5°	137.8	143.3	165.0	201.3	204.9	221.2	228.5	266.6	326.4	353.6	339.1
80°	78.0	78.0	88.9	103.4	126.9	148.7	152.3	183.2	210.4	228.5	232.1
82.5°	36.3	38.1	47.1	63.5	83.4	103.4	107.0	126.9	146.9	165.0	170.5
85°	18.1	19.9	27.2	38.1	50.8	61.7	59.8	61.7	65.3	61.7	63.5
87.5°	5.4	5.4	7.3	9.1	7.3	9.1	9.1	10.9	12.7	14.5	16.3
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°	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2	2856.2
2.5°	2872.5	2877.9	2841.7	2876.1	2863.4	2861.6	2887.0	2883.4	2892.4	2888.8	2867.0
5°	2874.3	2861.6	2899.7	2865.2	2881.6	2916.0	2892.4	2946.8	2919.6	2937.8	2897.9
7.5°	2930.5	2934.1	2926.9	2941.4	2934.1	2950.5	2937.8	2950.5	2928.7	2930.5	2966.8
10°	2979.5	2968.6	2981.3	2963.2	2975.9	2970.4	2941.4	2932.3	2939.6	2930.5	2954.1
12.5°	3070.2	3050.2	3041.1	3019.4	3004.9	2950.5	2905.1	2879.7	2914.2	2919.6	2908.8
15°	3162.6	3164.4	3122.7	3073.8	2983.1	2901.5	2912.4	2921.4	2921.4	2936.0	2908.8
17.5°	3220.7	3220.7	3182.6	3084.7	2992.2	2945.0	2934.1	2905.1	2879.7	2876.1	2874.3
20°	3322.2	3291.4	3204.3	3082.8	2988.5	2966.8	2885.2	2816.3	2763.7	2745.5	2743.7
22.5°	3438.3	3360.3	3238.8	3086.5	2983.1	2952.3	2799.9	2696.6	2602.3	2562.4	2567.8
25°	3545.3	3420.1	3258.7	3070.2	2963.2	2814.5	2644.0	2500.7	2402.8	2370.2	2353.8
27.5°	3619.6	3483.6	3258.7	3084.7	2888.8	2660.3	2486.2	2303.1	2217.8	2196.1	2199.7
30°	3719.4	3563.4	3315.0	3053.8	2740.1	2460.8	2252.3	2132.6	2081.8	2063.7	2076.4
32.5°	3953.3	3772.0	3392.9	2979.5	2564.2	2261.4	2092.7	2025.6	1951.3	1915.0	1902.3
35°	4207.2	3969.6	3469.1	2854.4	2366.5	2080.0	1974.8	1913.2	1824.3	1784.4	1791.7
37.5°	4566.2	4223.5	3474.5	2647.6	2152.6	1978.5	1882.3	1786.2	1713.7	1652.0	1633.9
40°	5050.4	4569.9	3461.9	2430.0	1980.3	1858.8	1788.1	1668.4	1586.8	1543.2	1552.3
42.5°	5476.6	4976.1	3409.3	2183.4	1824.3	1777.2	1697.4	1579.5	1499.7	1454.4	1450.8
45°	5835.6	5275.3	3309.5	1973.0	1693.8	1686.5	1594.0	1503.3	1439.9	1398.2	1416.3
47.5°	6167.5	5516.5	3159.0	1762.7	1574.1	1588.6	1499.7	1443.5	1403.6	1365.5	1363.7
50°	6287.2	5512.9	3026.6	1588.6	1478.0	1470.7	1467.1	1407.2	1365.5	1332.9	1347.4
52.5°	6486.7	5574.5	2883.4	1468.9	1390.9	1392.7	1405.4	1361.9	1314.7	1294.8	1312.9
55°	6773.2	5583.6	2567.8	1329.3	1318.4	1331.1	1331.1	1302.0	1262.2	1245.8	1236.8
56°	6539.3	5313.4	2303.1	1293.0	1282.1	1282.1	1316.6	1283.9	1235.0	1222.3	1211.4
57.5°	6031.5	4655.1	1927.7	1249.5	1233.1	1258.5	1276.7	1242.2	1196.9	1178.7	1189.6
60°	4160.0	3149.9	1448.9	1155.2	1155.2	1196.9	1211.4	1160.6	1140.7	1138.8	1124.3
62.5°	2428.2	1835.2	1133.4	1069.9	1073.6	1108.0	1118.9	1089.9	1064.5	1095.3	1109.8
65°	1287.5	1095.3	972.0	979.3	981.1	1008.3	1055.4	1053.6	1051.8	1060.9	1062.7
67.5°	932.1	910.3	883.1	875.9	879.5	899.5	946.6	982.9	981.1	959.3	943.0
70°	830.6	799.7	783.4	785.2	770.7	794.3	832.4	855.9	814.2	788.8	778.0
72.5°	690.9	681.9	671.0	672.8	643.8	638.3	594.8	594.8	583.9	576.7	589.4
75°	527.7	524.1	529.5	520.5	489.6	457.0	431.6	408.0	371.8	357.2	350.0
77.5°	333.7	344.6	357.2	337.3	324.6	301.0	275.6	252.1	223.1	206.7	206.7
80°	226.7	235.7	244.8	241.2	226.7	204.9	185.0	159.6	139.6	126.9	125.1
82.5°	172.3	179.5	192.2	177.7	163.2	145.1	128.8	110.6	92.5	78.0	78.0
85°	61.7	70.7	78.0	85.2	90.7	92.5	79.8	65.3	52.6	41.7	39.9
87.5°	16.3	18.1	19.9	18.1	18.1	18.1	19.9	18.1	16.3	12.7	12.7
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)