

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: P528803

Luminaire Tested: **GALN-SA3D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10711 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

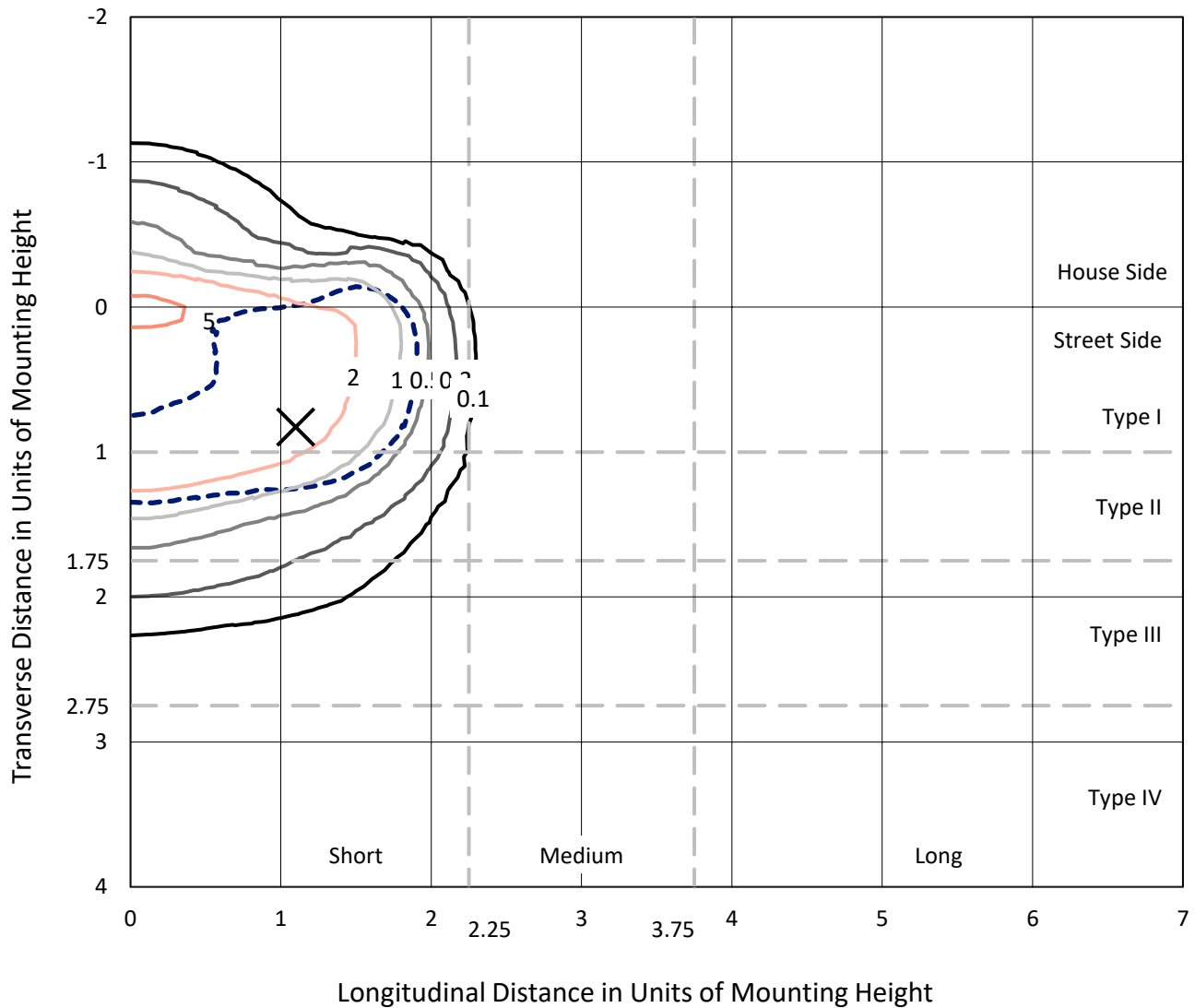
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

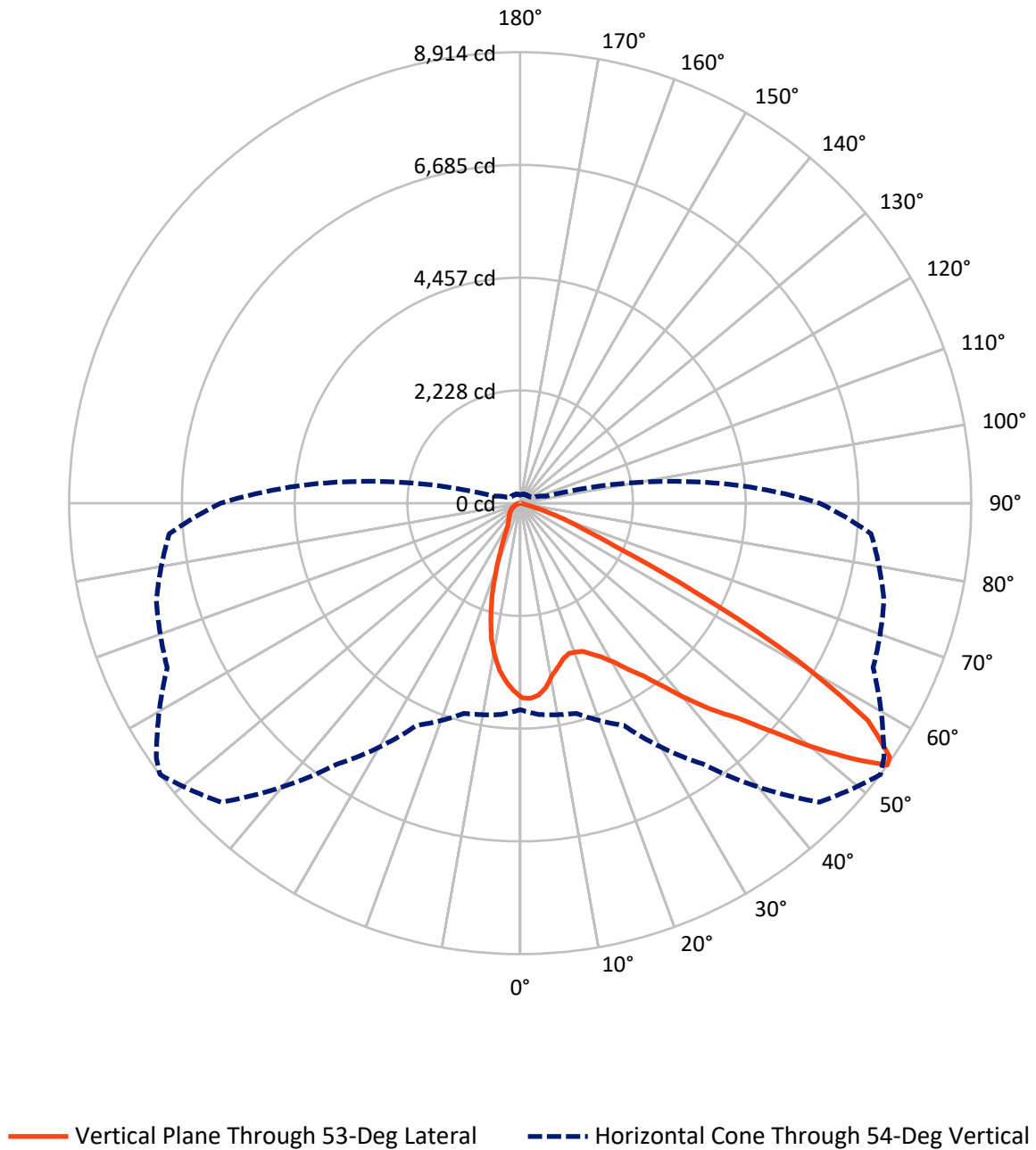


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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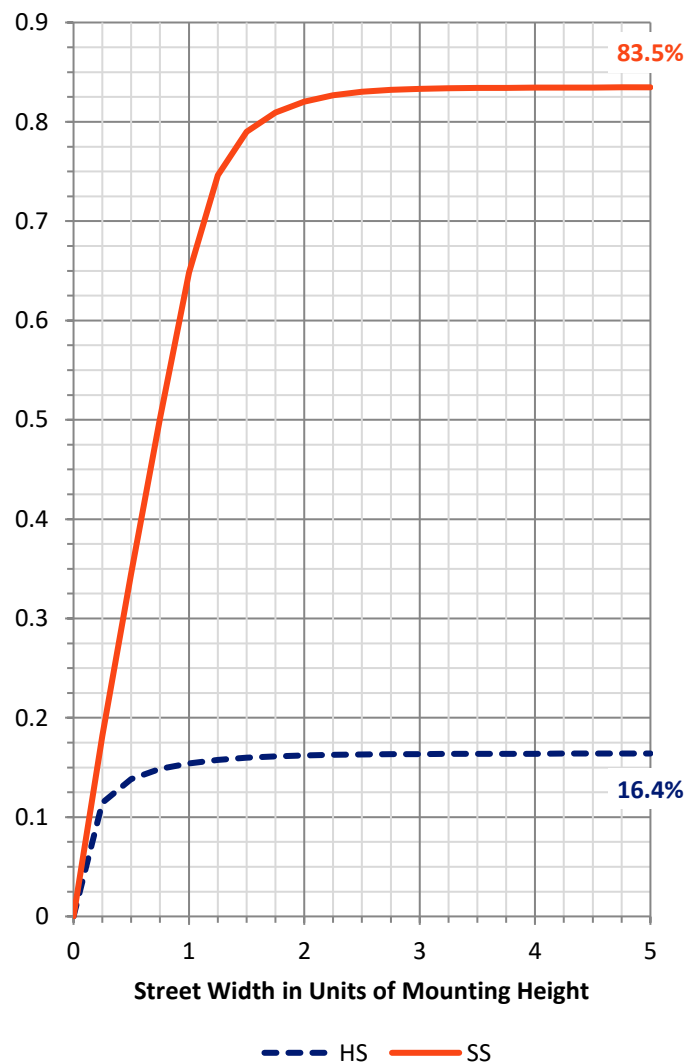
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.2	0.0	1772.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8938.8	0.0	8938.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10711.0	0.0	10711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	3.1
10°-20°	756.8	7.1
20°-30°	1075.5	10.0
30°-40°	1659.8	15.5
40°-50°	2602.5	24.3
50°-60°	3023.1	28.2
60°-70°	1142.3	10.7
70°-80°	108.6	1.0
80°-90°	12.2	0.1
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°	10711.0	100.0
0°-180°	10711.0	100.0

Coefficient of Utilization



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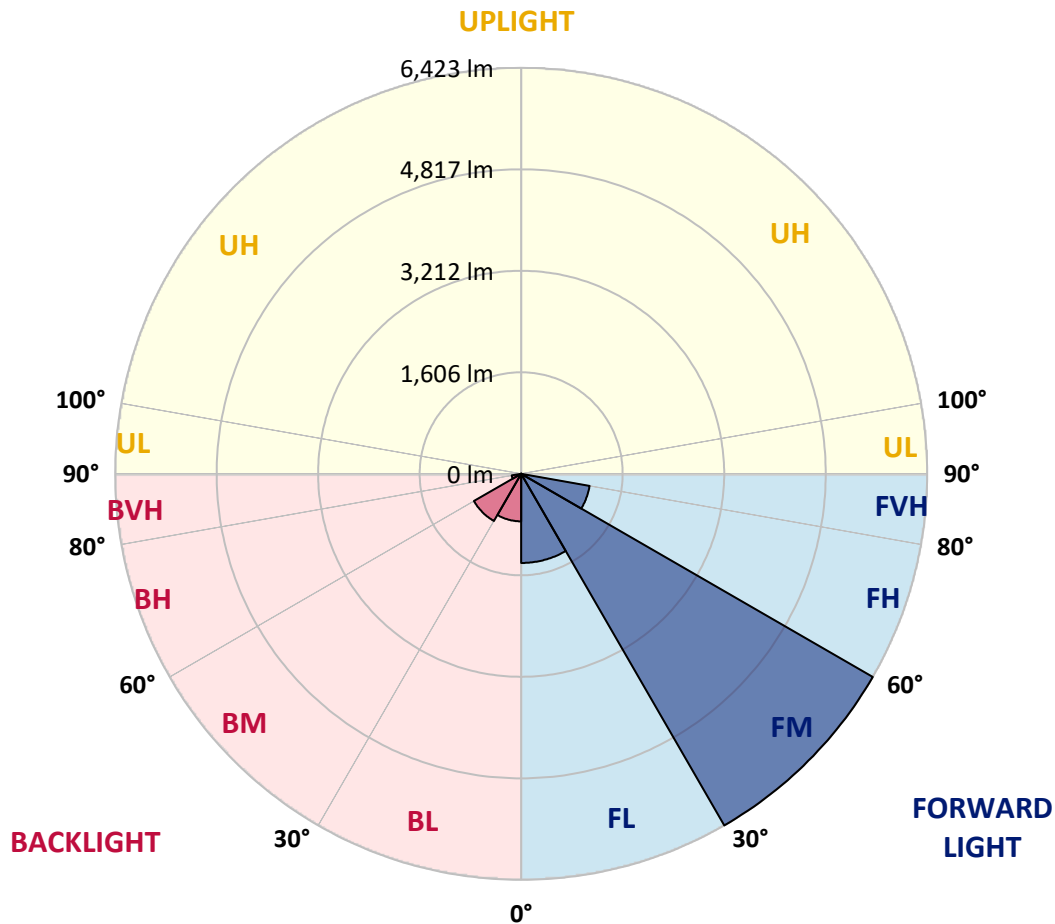
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1410.4	13.2			
FM	(30°-60°)	6423.1	60.0			
FH	(60°-80°)	1099.1	10.3			G1/1800
FVH	(80°-90°)	6.3	0.1			G0/10
BL	(0°-30°)	752.0	7.0	B2/1000		
BM	(30°-60°)	862.4	8.1	B1/1000		
BH	(60°-80°)	151.8	1.4	B1/500		G1/500
BVH	(80°-90°)	5.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	3827.3	3793.3	3827.3	3831.2	3855.2	3877.1	3863.2	3895.1	3877.1	3857.2	3851.2
5°	3518.0	3563.9	3565.9	3637.7	3621.7	3753.4	3811.3	3795.3	3893.1	3887.1	3873.2
7.5°	3240.6	3222.6	3246.6	3330.4	3436.1	3587.8	3671.6	3669.6	3809.3	3909.1	3899.1
10°	2983.2	2981.2	3031.1	3096.9	3186.7	3346.4	3462.1	3520.0	3737.5	3889.1	3911.1
12.5°	2809.6	2801.6	2855.5	2909.4	3051.0	3174.7	3322.4	3350.3	3599.8	3819.3	3855.2
15°	2695.8	2713.8	2717.8	2821.6	2911.3	3075.0	3190.7	3248.6	3535.9	3763.4	3901.1
17.5°	2675.9	2699.8	2701.8	2787.6	2883.4	3021.1	3122.9	3200.7	3482.0	3791.3	3903.1
20°	2715.8	2701.8	2713.8	2767.7	2861.5	2993.2	3140.8	3166.8	3464.1	3805.3	3925.0
22.5°	2829.5	2825.5	2795.6	2839.5	2905.4	3043.0	3182.7	3222.6	3516.0	3877.1	3943.0
25°	2955.2	2977.2	2949.3	2943.3	2989.2	3124.9	3310.4	3362.3	3689.6	4006.8	3998.9
27.5°	3190.7	3168.8	3168.8	3140.8	3128.9	3194.7	3448.1	3533.9	3883.1	4174.5	4062.7
30°	3416.2	3440.1	3422.2	3432.2	3352.3	3346.4	3643.7	3749.4	4226.3	4429.9	4198.4
32.5°	3773.4	3741.5	3771.4	3745.4	3639.7	3531.9	3909.1	4018.8	4641.4	4723.2	4401.9
35°	4070.7	4056.7	4184.4	4180.4	4008.8	3903.1	4190.4	4354.1	4930.7	5074.4	4641.4
37.5°	4493.7	4467.8	4613.5	4683.3	4529.7	4372.0	4593.5	4783.1	5200.1	5355.8	4886.8
40°	4928.7	4994.6	5190.1	5305.9	5142.3	4932.7	5086.4	5144.2	5379.7	5539.3	5054.5
42.5°	5479.5	5575.3	5774.8	5874.6	5860.6	5633.1	5587.2	5585.2	5509.4	5487.5	5178.2
45°	6008.3	5972.4	6279.7	6497.2	6672.8	6606.9	6070.1	6010.3	5714.9	5565.3	5210.1
47.5°	6239.7	6227.8	6437.3	6824.4	7423.0	7504.9	6772.5	6541.1	6062.2	5892.5	5383.7
50°	5940.4	6002.3	6209.8	6638.8	7556.7	8181.3	7634.6	7323.3	6467.2	6291.6	5794.8
52.5°	4962.7	5004.6	5202.1	5746.9	7101.8	8580.4	8460.7	8281.1	7211.5	6920.2	6511.1
54°	4080.7	4192.4	4300.2	4846.9	6291.6	8358.9	8913.6	8776.0	7696.4	7443.0	6962.1
55°	3553.9	3619.7	3697.6	4242.3	5730.9	7983.8	8861.8	8873.7	8021.7	7606.6	7265.4
57.5°	2596.1	2642.0	2562.1	2803.6	3935.0	6483.2	8105.5	8428.7	8460.7	7852.1	7451.0
60°	1983.5	2003.4	1913.6	1951.5	2446.4	4449.8	6269.7	6658.8	7632.6	6862.3	6311.6
62.5°	1538.5	1542.5	1540.5	1606.3	1686.1	2618.0	3921.0	4266.3	5262.0	4872.9	4286.2
65°	1133.4	1115.5	1147.4	1346.9	1438.7	1646.2	2065.3	2316.7	2859.5	2414.5	1726.1
67.5°	734.3	740.3	772.2	1001.7	1233.2	1263.1	1271.1	1251.1	1253.1	690.4	433.0
70°	441.0	451.0	441.0	566.7	882.0	905.9	828.1	808.2	630.6	163.6	161.6
72.5°	261.4	247.4	221.5	243.4	367.2	439.0	395.1	393.1	247.4	95.8	95.8
75°	109.7	99.8	81.8	73.8	97.8	93.8	93.8	83.8	65.8	63.9	59.9
77.5°	21.9	21.9	16.0	18.0	23.9	27.9	33.9	33.9	39.9	39.9	37.9
80°	0.0	2.0	6.0	12.0	18.0	25.9	29.9	29.9	33.9	33.9	27.9
82.5°	0.0	2.0	6.0	12.0	16.0	23.9	29.9	29.9	33.9	35.9	29.9
85°	0.0	2.0	6.0	10.0	16.0	20.0	20.0	18.0	14.0	12.0	8.0
87.5°	0.0	0.0	2.0	4.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2	3847.2
2.5°	3865.2	3863.2	3815.3	3737.5	3719.5	3653.7	3645.7	3605.8	3627.7	3553.9	3545.9
5°	3833.2	3809.3	3751.4	3701.5	3555.9	3452.1	3370.3	3270.5	3212.7	3222.6	3184.7
7.5°	3879.1	3817.3	3715.5	3541.9	3364.3	3182.7	3085.0	2881.4	2807.6	2697.8	2681.9
10°	3831.2	3785.4	3627.7	3340.4	3094.9	2833.5	2604.1	2378.6	2207.0	2133.1	2117.2
12.5°	3827.3	3747.4	3484.0	3164.8	2809.6	2434.4	2101.2	1819.8	1650.2	1554.4	1532.5
15°	3765.4	3669.6	3322.4	2893.4	2402.5	1935.6	1572.4	1301.0	1171.3	1115.5	1131.4
17.5°	3771.4	3627.7	3160.8	2606.0	2001.4	1420.8	1073.5	933.9	899.9	913.9	913.9
20°	3765.4	3533.9	2965.2	2274.8	1532.5	985.7	788.2	738.3	760.3	804.2	794.2
22.5°	3733.5	3490.0	2785.6	1925.6	1127.4	730.3	632.6	634.6	668.5	722.3	734.3
25°	3757.4	3392.3	2558.2	1572.4	822.1	582.7	548.7	562.7	598.6	638.5	646.5
27.5°	3739.5	3322.4	2320.7	1221.2	600.6	500.9	498.9	514.8	530.8	560.7	560.7
30°	3759.4	3258.6	2087.2	907.9	494.9	459.0	451.0	462.9	478.9	484.9	482.9
32.5°	3833.2	3210.7	1817.8	678.5	437.0	419.0	419.0	419.0	417.0	425.0	427.0
35°	3994.9	3218.6	1580.4	524.8	399.1	385.1	379.1	371.2	367.2	371.2	373.1
37.5°	4170.5	3214.7	1335.0	447.0	371.2	359.2	345.2	333.2	331.2	335.2	329.2
40°	4248.3	3252.6	1107.5	401.1	345.2	331.2	309.3	299.3	301.3	305.3	301.3
42.5°	4354.1	3264.5	959.8	365.2	321.3	299.3	285.3	273.4	271.4	277.4	275.4
45°	4352.1	3196.7	804.2	345.2	299.3	275.4	257.4	247.4	247.4	251.4	253.4
47.5°	4479.8	3186.7	690.4	327.3	283.4	259.4	237.5	229.5	227.5	227.5	223.5
50°	4777.1	3326.4	602.6	307.3	263.4	241.4	223.5	213.5	205.5	201.5	199.5
52.5°	5357.8	3761.4	534.8	283.4	241.4	223.5	207.5	199.5	189.6	179.6	177.6
54°	5920.5	4210.4	530.8	263.4	223.5	211.5	197.5	193.6	181.6	167.6	163.6
55°	6173.9	4471.8	544.8	247.4	211.5	203.5	191.6	187.6	175.6	159.6	157.6
57.5°	6383.4	4573.6	536.8	205.5	191.6	189.6	179.6	173.6	159.6	137.7	133.7
60°	5138.3	3458.1	385.1	181.6	175.6	171.6	163.6	159.6	141.7	117.7	115.7
62.5°	3246.6	1989.5	245.4	159.6	153.6	147.7	137.7	133.7	117.7	93.8	87.8
65°	1382.8	824.1	165.6	141.7	131.7	121.7	113.7	107.8	93.8	69.8	67.8
67.5°	359.2	293.3	137.7	123.7	109.7	95.8	89.8	79.8	63.9	47.9	45.9
70°	161.6	147.7	115.7	103.8	87.8	73.8	65.8	55.9	41.9	31.9	29.9
72.5°	95.8	93.8	87.8	77.8	65.8	55.9	47.9	37.9	27.9	18.0	18.0
75°	59.9	57.9	59.9	53.9	45.9	41.9	35.9	25.9	16.0	8.0	8.0
77.5°	35.9	35.9	35.9	33.9	31.9	31.9	25.9	16.0	8.0	2.0	2.0
80°	27.9	27.9	29.9	27.9	27.9	27.9	21.9	12.0	4.0	0.0	0.0
82.5°	27.9	29.9	33.9	31.9	27.9	23.9	20.0	12.0	4.0	0.0	0.0
85°	8.0	6.0	10.0	14.0	20.0	18.0	14.0	10.0	4.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	2.0	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)