

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: P530909

Luminaire Tested: **GALN-SA6A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530909
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-SA6A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 12578 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 182
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



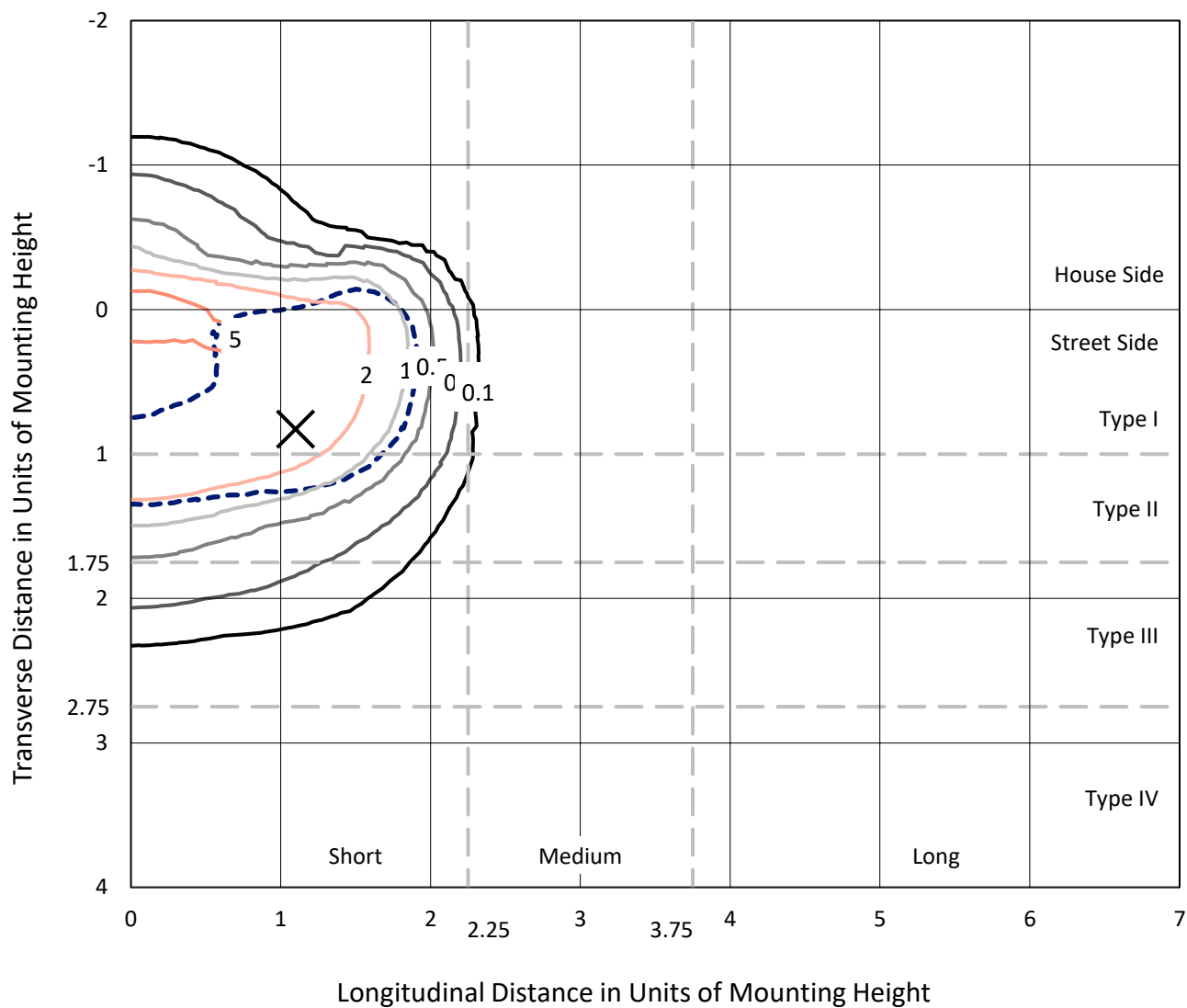
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



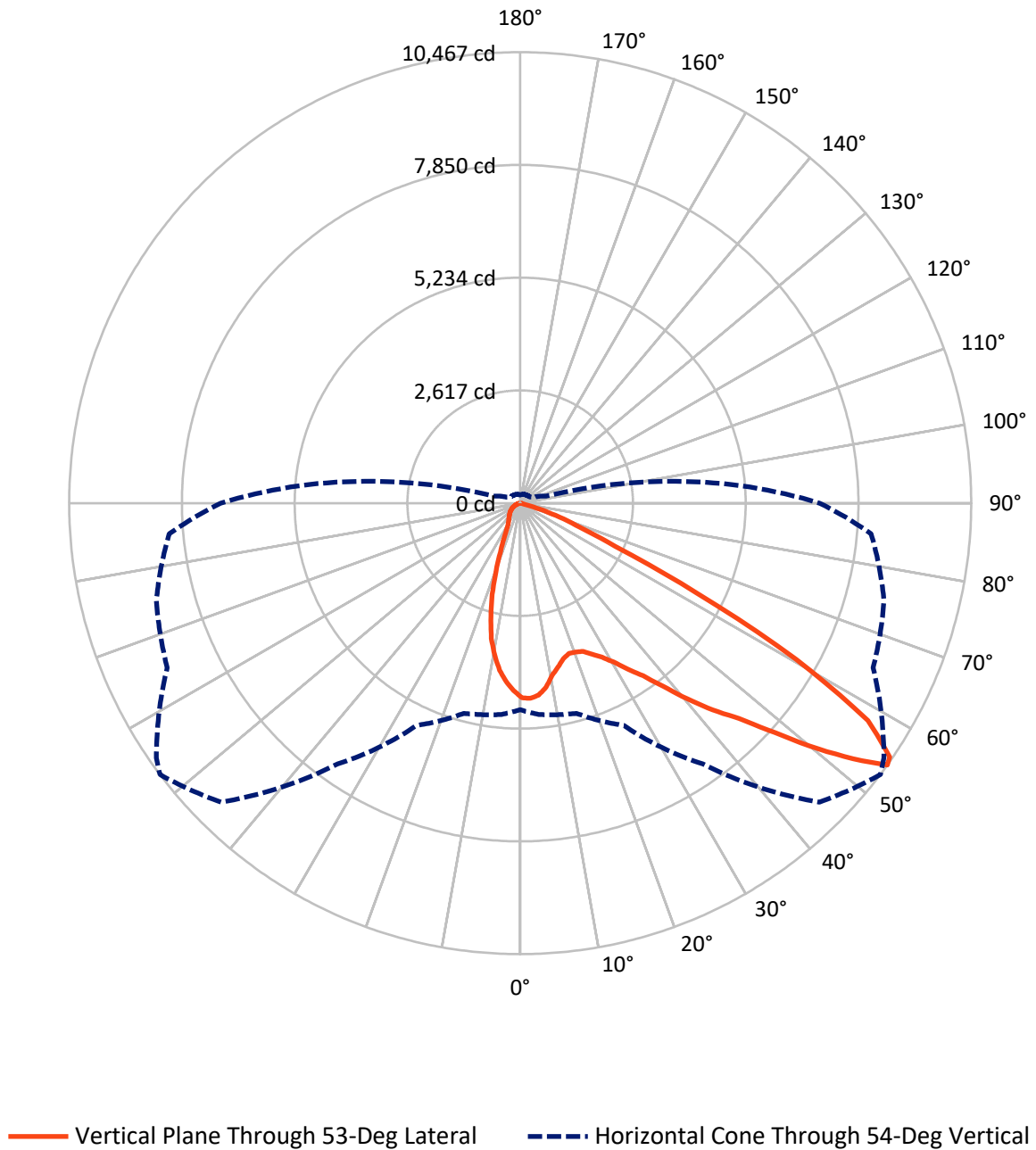
Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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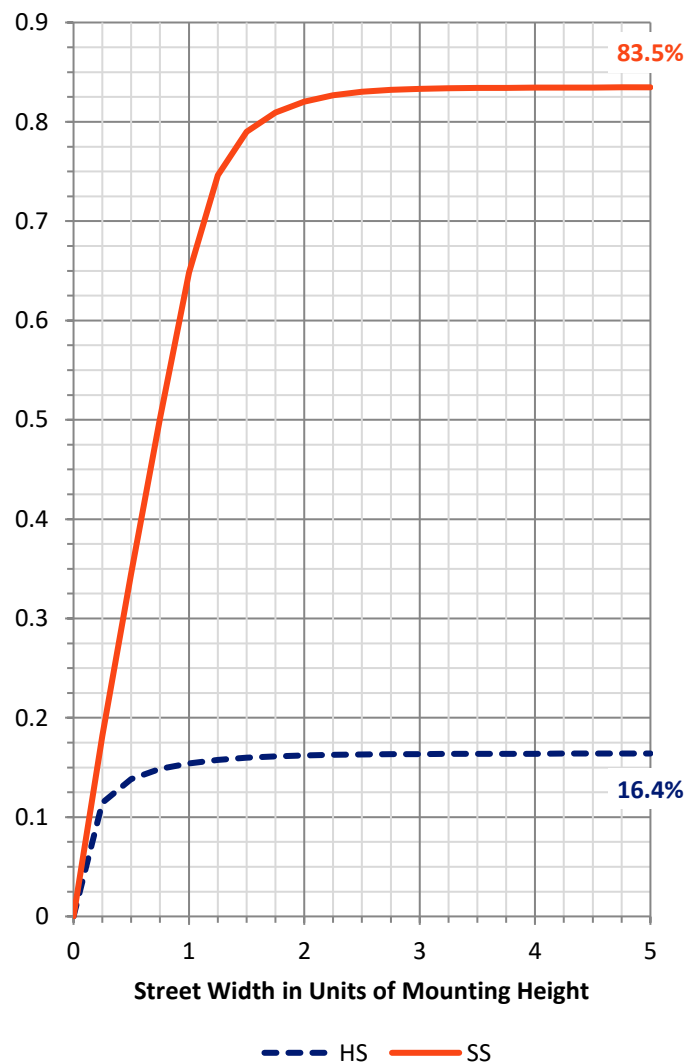
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2081.1	0.0	2081.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10496.9	0.0	10496.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	12578.0	0.0	12578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	3.1
10°-20°	888.7	7.1
20°-30°	1263.0	10.0
30°-40°	1949.2	15.5
40°-50°	3056.1	24.3
50°-60°	3550.1	28.2
60°-70°	1341.4	10.7
70°-80°	127.6	1.0
80°-90°	14.3	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°	12578.0	100.0
0°-180°	12578.0	100.0

Coefficient of Utilization



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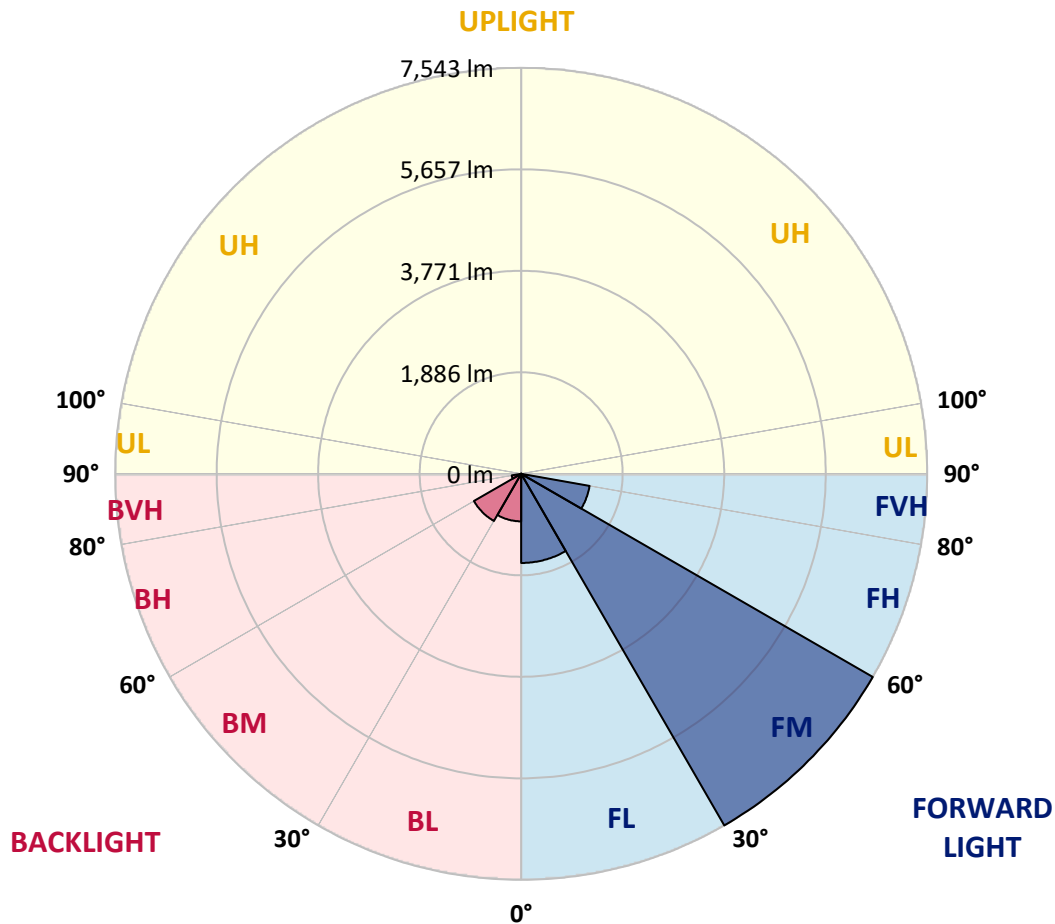
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.2	13.2			
FM	(30°-60°)	7542.6	60.0			
FH	(60°-80°)	1290.7	10.3			G1/1800
FVH	(80°-90°)	7.4	0.1			G0/10
BL	(0°-30°)	883.1	7.0	B2/1000		
BM	(30°-60°)	1012.7	8.1	B2/2500		
BH	(60°-80°)	178.3	1.4	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8
2.5°	4494.4	4454.5	4494.4	4499.1	4527.2	4553.0	4536.6	4574.0	4553.0	4529.5	4522.5
5°	4131.2	4185.1	4187.4	4271.8	4253.0	4407.7	4475.6	4456.9	4571.7	4564.7	4548.3
7.5°	3805.5	3784.4	3812.5	3910.9	4035.1	4213.2	4311.6	4309.3	4473.3	4590.4	4578.7
10°	3503.2	3500.8	3559.4	3636.7	3742.2	3929.6	4065.6	4133.5	4388.9	4567.0	4592.8
12.5°	3299.3	3289.9	3353.2	3416.5	3582.8	3728.1	3901.5	3934.3	4227.2	4485.0	4527.2
15°	3165.7	3186.8	3191.5	3313.4	3418.8	3611.0	3746.9	3814.8	4152.3	4419.4	4581.1
17.5°	3142.3	3170.4	3172.8	3273.5	3386.0	3547.7	3667.2	3758.6	4089.0	4452.2	4583.4
20°	3189.2	3172.8	3186.8	3250.1	3360.2	3514.9	3688.3	3718.8	4067.9	4468.6	4609.2
22.5°	3322.7	3318.1	3282.9	3334.5	3411.8	3573.5	3737.5	3784.4	4128.8	4553.0	4630.3
25°	3470.4	3496.1	3463.3	3456.3	3510.2	3669.5	3887.5	3948.4	4332.7	4705.3	4695.9
27.5°	3746.9	3721.1	3721.1	3688.3	3674.2	3751.6	4049.2	4149.9	4560.0	4902.1	4770.9
30°	4011.7	4039.8	4018.7	4030.4	3936.7	3929.6	4278.8	4403.0	4963.0	5202.0	4930.2
32.5°	4431.1	4393.6	4428.8	4398.3	4274.1	4147.6	4590.4	4719.3	5450.4	5546.5	5169.2
35°	4780.3	4763.8	4913.8	4909.1	4707.6	4583.4	4920.8	5113.0	5790.2	5958.9	5450.4
37.5°	5277.0	5246.6	5417.6	5499.6	5319.2	5134.1	5394.2	5616.8	6106.5	6289.3	5738.6
40°	5787.9	5865.2	6094.8	6230.7	6038.6	5792.5	5973.0	6040.9	6317.4	6504.9	5935.5
42.5°	6434.6	6547.1	6781.4	6898.6	6882.2	6615.0	6561.1	6558.8	6469.7	6444.0	6080.8
45°	7055.6	7013.4	7374.2	7629.7	7835.9	7758.5	7128.2	7057.9	6711.1	6535.4	6118.3
47.5°	7327.4	7313.3	7559.4	8013.9	8716.9	8813.0	7953.0	7681.2	7118.8	6919.6	6322.1
50°	6975.9	7048.5	7292.2	7796.0	8873.9	9607.4	8965.3	8599.8	7594.5	7388.3	6804.8
52.5°	5827.7	5876.9	6108.9	6748.6	8339.7	10076.0	9935.4	9724.5	8468.5	8126.4	7646.1
54°	4792.0	4923.2	5049.7	5691.8	7388.3	9815.9	10467.3	10305.7	9038.0	8740.4	8175.6
55°	4173.3	4250.7	4342.1	4981.8	6729.8	9375.4	10406.4	10420.5	9419.9	8932.5	8531.8
57.5°	3048.6	3102.5	3008.7	3292.3	4620.9	7613.3	9518.3	9897.9	9935.4	9220.7	8749.7
60°	2329.2	2352.6	2247.2	2291.7	2872.8	5225.5	7362.5	7819.5	8963.0	8058.5	7411.7
62.5°	1806.7	1811.3	1809.0	1886.3	1980.1	3074.4	4604.5	5009.9	6179.2	5722.2	5033.3
65°	1331.0	1309.9	1347.4	1581.7	1689.5	1933.2	2425.3	2720.5	3357.9	2835.3	2026.9
67.5°	862.3	869.3	906.8	1176.3	1448.1	1483.3	1492.7	1469.2	1471.6	810.8	508.5
70°	517.9	529.6	517.9	665.5	1035.7	1063.8	972.5	949.0	740.5	192.1	189.8
72.5°	307.0	290.6	260.1	285.9	431.2	515.5	464.0	461.6	290.6	112.5	112.5
75°	128.9	117.2	96.1	86.7	114.8	110.1	110.1	98.4	77.3	75.0	70.3
77.5°	25.8	25.8	18.7	21.1	28.1	32.8	39.8	39.8	46.9	46.9	44.5
80°	0.0	2.3	7.0	14.1	21.1	30.5	35.1	35.1	39.8	39.8	32.8
82.5°	0.0	2.3	7.0	14.1	18.7	28.1	35.1	35.1	39.8	42.2	35.1
85°	0.0	2.3	7.0	11.7	18.7	23.4	23.4	21.1	16.4	14.1	9.4
87.5°	0.0	0.0	2.3	4.7	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8	4517.8
2.5°	4538.9	4536.6	4480.3	4388.9	4367.8	4290.5	4281.1	4234.3	4260.0	4173.3	4164.0
5°	4501.4	4473.3	4405.3	4346.7	4175.7	4053.8	3957.8	3840.6	3772.6	3784.4	3739.8
7.5°	4555.3	4482.7	4363.2	4159.3	3950.7	3737.5	3622.7	3383.7	3297.0	3168.1	3149.3
10°	4499.1	4445.2	4260.0	3922.6	3634.4	3327.4	3058.0	2793.2	2591.6	2504.9	2486.2
12.5°	4494.4	4400.6	4091.3	3716.4	3299.3	2858.8	2467.5	2137.1	1937.9	1825.4	1799.6
15°	4421.7	4309.3	3901.5	3397.7	2821.3	2273.0	1846.5	1527.8	1375.5	1309.9	1328.6
17.5°	4428.8	4260.0	3711.7	3060.3	2350.3	1668.4	1260.7	1096.6	1056.8	1073.2	1073.2
20°	4421.7	4149.9	3482.1	2671.3	1799.6	1157.6	925.6	867.0	892.8	944.3	932.6
22.5°	4384.2	4098.4	3271.2	2261.2	1323.9	857.6	742.8	745.2	785.0	848.3	862.3
25°	4412.4	3983.5	3004.1	1846.5	965.4	684.2	644.4	660.8	703.0	749.8	759.2
27.5°	4391.3	3901.5	2725.2	1434.1	705.3	588.2	585.8	604.6	623.3	658.5	658.5
30°	4414.7	3826.5	2451.1	1066.2	581.1	538.9	529.6	543.6	562.4	569.4	567.1
32.5°	4501.4	3770.3	2134.7	796.7	513.2	492.1	492.1	492.1	489.7	499.1	501.5
35°	4691.2	3779.7	1855.9	616.3	468.7	452.2	445.2	435.8	431.2	435.8	438.2
37.5°	4897.4	3775.0	1567.6	524.9	435.8	421.8	405.4	391.3	389.0	393.7	386.6
40°	4988.8	3819.5	1300.5	471.0	405.4	389.0	363.2	351.5	353.8	358.5	353.8
42.5°	5113.0	3833.6	1127.1	428.8	377.3	351.5	335.1	321.0	318.7	325.7	323.4
45°	5110.7	3753.9	944.3	405.4	351.5	323.4	302.3	290.6	290.6	295.3	297.6
47.5°	5260.6	3742.2	810.8	384.3	332.7	304.6	278.8	269.5	267.1	267.1	262.4
50°	5609.8	3906.2	707.7	360.9	309.3	283.5	262.4	250.7	241.4	236.7	234.3
52.5°	6291.7	4417.0	628.0	332.7	283.5	262.4	243.7	234.3	222.6	210.9	208.6
54°	6952.5	4944.3	623.3	309.3	262.4	248.4	232.0	227.3	213.2	196.8	192.1
55°	7250.0	5251.2	639.7	290.6	248.4	239.0	225.0	220.3	206.2	187.5	185.1
57.5°	7496.1	5370.8	630.3	241.4	225.0	222.6	210.9	203.9	187.5	161.7	157.0
60°	6033.9	4060.9	452.2	213.2	206.2	201.5	192.1	187.5	166.4	138.3	135.9
62.5°	3812.5	2336.2	288.2	187.5	180.4	173.4	161.7	157.0	138.3	110.1	103.1
65°	1623.9	967.8	194.5	166.4	154.7	142.9	133.6	126.5	110.1	82.0	79.7
67.5°	421.8	344.5	161.7	145.3	128.9	112.5	105.4	93.7	75.0	56.2	53.9
70°	189.8	173.4	135.9	121.8	103.1	86.7	77.3	65.6	49.2	37.5	35.1
72.5°	112.5	110.1	103.1	91.4	77.3	65.6	56.2	44.5	32.8	21.1	21.1
75°	70.3	68.0	70.3	63.3	53.9	49.2	42.2	30.5	18.7	9.4	9.4
77.5°	42.2	42.2	42.2	39.8	37.5	37.5	30.5	18.7	9.4	2.3	2.3
80°	32.8	32.8	35.1	32.8	32.8	32.8	25.8	14.1	4.7	0.0	0.0
82.5°	32.8	35.1	39.8	37.5	32.8	28.1	23.4	14.1	4.7	0.0	0.0
85°	9.4	7.0	11.7	16.4	23.4	21.1	16.4	11.7	4.7	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	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)