

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: P529611

Luminaire Tested: **GALN-SA4D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16672 lumens
Efficiency: N/A
Efficacy: 68.0 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): 245
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



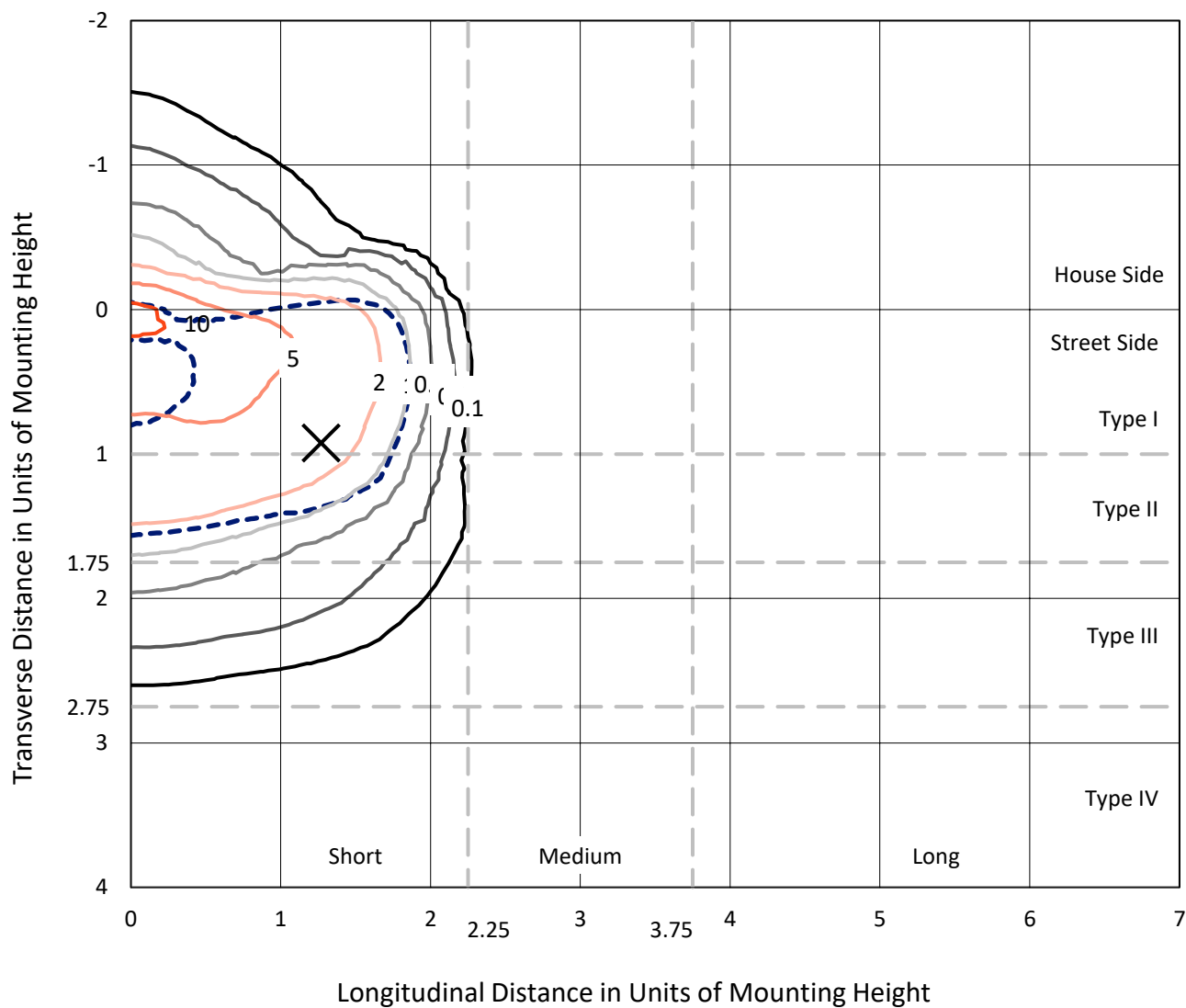
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

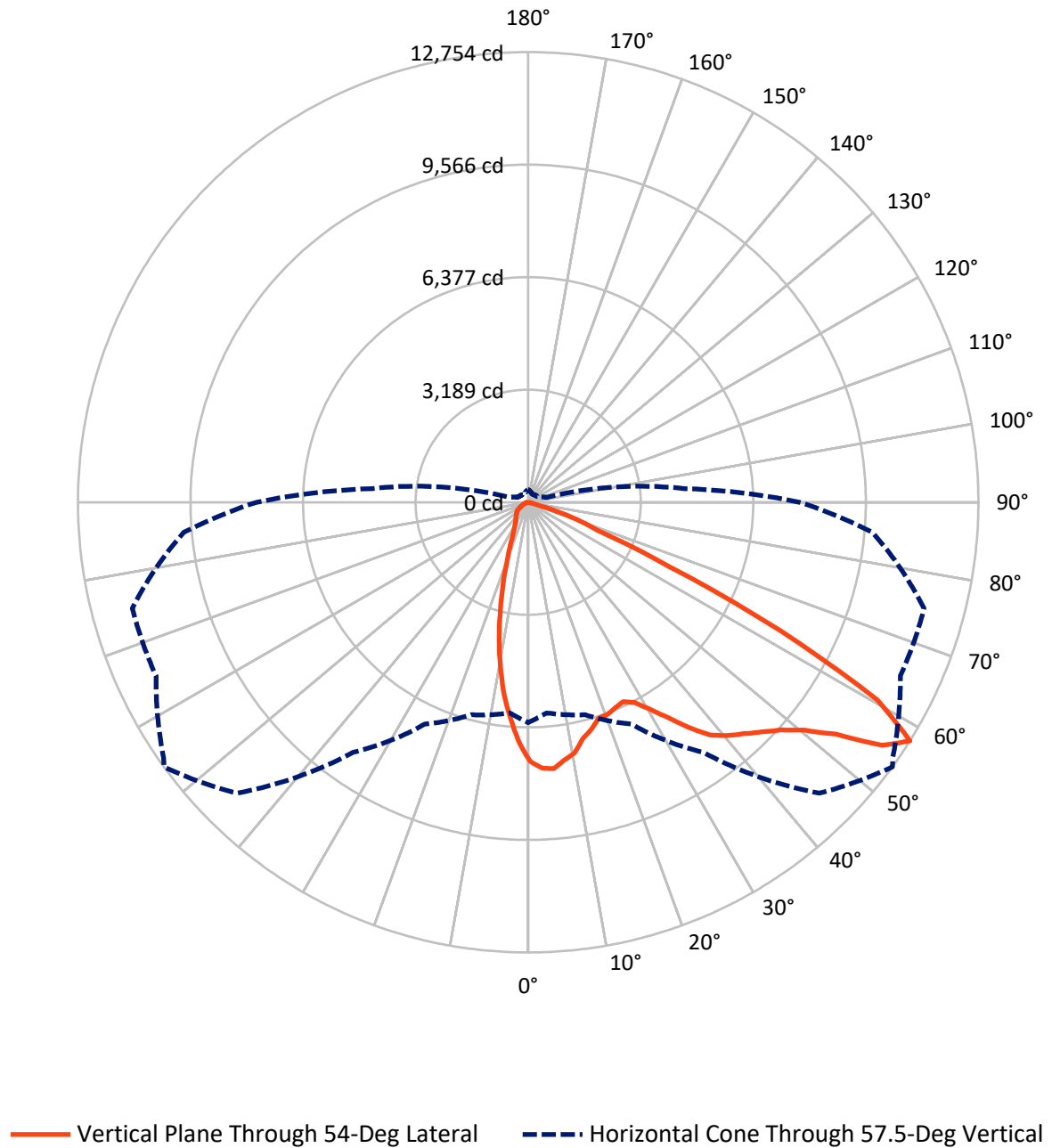


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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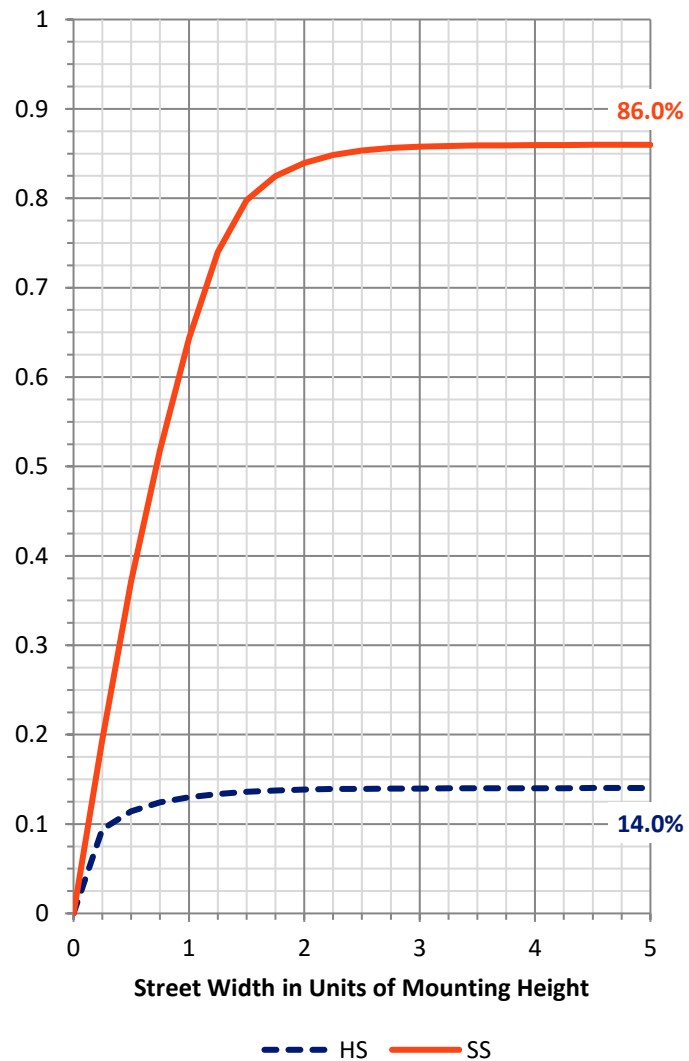
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2356.0	0.0	2356.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14316.0	0.0	14316.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	16672.0	0.0	16672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.6	3.7
10°-20°	1312.1	7.9
20°-30°	1738.8	10.4
30°-40°	2527.0	15.2
40°-50°	3747.2	22.5
50°-60°	4685.7	28.1
60°-70°	1848.3	11.1
70°-80°	184.0	1.1
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°	16672.0	100.0
0°-180°	16672.0	100.0

Coefficient of Utilization



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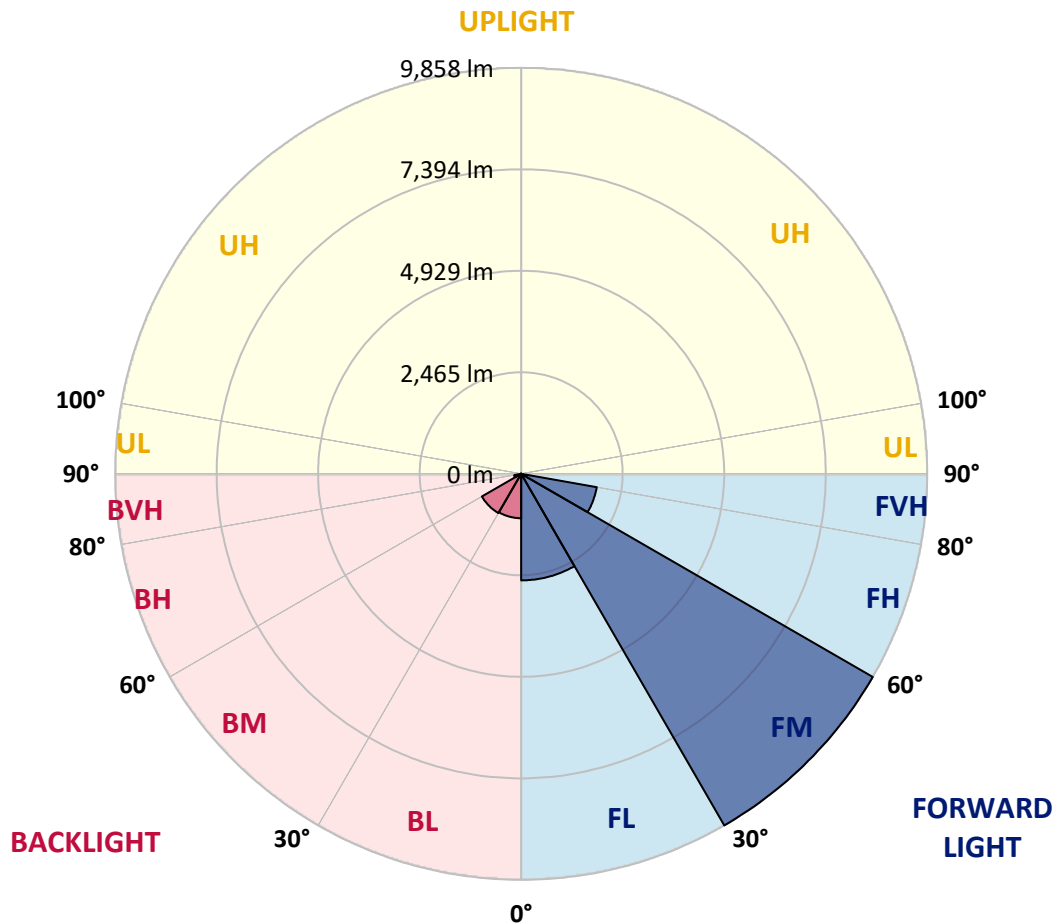
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2588.0	15.5			
FM	(30°-60°)	9858.1	59.1			
FH	(60°-80°)	1863.4	11.2			G2/5000
FVH	(80°-90°)	6.5	0.0			G0/10
BL	(0°-30°)	1077.5	6.5	B3/2500		
BM	(30°-60°)	1101.7	6.6	B2/2500		
BH	(60°-80°)	168.9	1.0	B1/500		G1/500
BVH	(80°-90°)	7.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2
2.5°	7772.1	7691.5	7697.7	7669.8	7632.6	7660.5	7539.5	7567.5	7564.4	7400.0	7291.5
5°	7576.8	7663.6	7573.7	7648.1	7576.8	7654.3	7579.9	7524.0	7434.1	7313.2	7111.7
7.5°	7245.0	7161.3	7186.1	7279.1	7294.6	7468.2	7375.2	7446.5	7409.3	7170.6	6894.7
10°	6578.5	6559.9	6683.9	6807.9	6959.8	7145.8	7217.1	7176.8	7148.9	7059.0	6690.1
12.5°	6067.0	6119.7	6116.6	6321.2	6578.5	6683.9	6869.9	6863.7	7018.7	6851.3	6497.9
15°	5580.3	5608.2	5738.4	5865.5	6150.7	6451.4	6680.8	6711.8	6897.8	6780.0	6349.1
17.5°	5282.6	5242.3	5344.6	5496.6	5788.0	6181.7	6435.9	6510.3	6764.5	6739.7	6178.6
20°	4988.1	4988.1	5071.8	5251.6	5518.3	5961.6	6414.2	6392.5	6764.5	6693.2	5995.7
22.5°	4888.9	4938.5	4960.2	5096.6	5412.9	5794.2	6321.2	6361.5	6817.2	6671.5	5915.1
25°	5025.3	4960.2	4966.4	5074.9	5372.5	5713.6	6253.0	6342.9	6913.3	6780.0	5850.0
27.5°	5047.0	5112.1	5130.7	5205.1	5403.6	5738.4	6423.5	6606.4	7152.0	7034.2	5868.6
30°	5236.1	5301.2	5298.1	5425.3	5561.7	5939.9	6804.8	6842.0	7645.0	7353.5	5983.3
32.5°	5465.6	5533.8	5555.5	5704.3	5812.8	6308.8	7269.8	7365.9	8119.3	7855.8	6284.0
35°	5750.8	5726.0	5825.2	5974.0	6206.5	6848.2	7837.2	7998.4	8630.8	8506.8	6594.0
37.5°	6107.3	6076.3	6172.4	6414.2	6730.4	7486.8	8361.1	8466.5	9002.8	9111.3	7167.5
40°	6358.4	6370.8	6662.2	6987.7	7322.5	8094.5	8692.8	8795.1	9263.2	9675.5	7601.6
42.5°	6776.9	6854.4	7204.7	7601.6	7951.9	8550.2	8962.5	9061.7	9384.1	10128.2	8187.5
45°	7384.5	7350.4	7738.0	8181.3	8568.8	9024.5	9281.8	9247.7	9455.4	10577.7	8556.4
47.5°	8165.8	8172.0	8429.3	8807.5	9210.5	9436.8	9638.3	9517.4	9604.2	11052.0	9049.3
50°	8699.0	8745.5	8953.2	9340.7	9542.2	9889.5	10146.8	10072.4	10044.5	11337.2	9359.3
52.5°	8835.4	8974.9	9086.5	9570.1	10041.4	10590.1	10918.7	11076.8	10580.8	11433.3	9753.1
55°	7806.2	7930.2	8323.9	8987.3	10230.5	11699.9	12152.6	12155.7	11281.4	11861.1	10029.0
57.5°	6240.6	5989.5	6231.3	6935.0	8649.4	11653.4	12754.0	12608.3	11631.7	11610.0	9790.3
60°	4315.4	4253.4	4268.9	4547.9	5986.4	9269.4	11365.1	11554.2	10711.0	10063.1	7750.4
62.5°	3419.5	3366.8	3298.6	3267.6	3717.1	5775.6	8017.0	8283.6	7489.9	6525.8	4594.4
65°	2678.5	2647.5	2656.8	2780.8	2777.7	3276.9	4383.6	4275.1	3422.6	2529.7	1444.7
67.5°	1807.4	1853.9	1891.1	2266.2	2458.4	2281.7	2117.4	2055.4	1113.0	468.1	319.3
70°	1016.8	1023.0	1063.3	1416.8	1866.3	1770.2	1460.2	1460.2	554.9	170.5	182.9
72.5°	554.9	536.3	499.1	610.7	830.8	843.2	651.0	567.3	164.3	111.6	102.3
75°	269.7	266.6	229.4	189.1	179.8	148.8	114.7	105.4	74.4	71.3	62.0
77.5°	55.8	52.7	27.9	27.9	31.0	34.1	43.4	43.4	52.7	52.7	43.4
80°	0.0	0.0	3.1	12.4	21.7	31.0	37.2	37.2	43.4	43.4	34.1
82.5°	0.0	0.0	3.1	9.3	18.6	27.9	34.1	37.2	43.4	46.5	37.2
85°	0.0	0.0	0.0	6.2	15.5	21.7	18.6	18.6	15.5	12.4	6.2
87.5°	0.0	0.0	0.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2	7344.2
2.5°	7235.7	7229.5	7086.9	7006.3	6860.6	6733.5	6631.2	6556.8	6556.8	6510.3	6466.9
5°	7031.1	6978.4	6674.6	6479.3	6203.4	5998.8	5859.3	5750.8	5580.3	5626.8	5443.9
7.5°	6776.9	6643.6	6240.6	5943.0	5561.7	5270.2	4972.6	4709.1	4454.9	4340.2	4402.2
10°	6504.1	6271.6	5729.1	5257.8	4783.5	4250.3	3903.1	3481.5	3221.0	3205.5	3137.3
12.5°	6215.8	5952.3	5291.9	4640.9	4017.8	3376.1	2845.9	2452.2	2275.5	2080.2	2117.4
15°	5998.8	5608.2	4805.2	4020.9	3193.1	2545.2	2012.0	1708.2	1540.8	1494.3	1478.8
17.5°	5763.2	5344.6	4309.2	3360.6	2504.9	1832.2	1447.8	1302.1	1237.0	1237.0	1227.7
20°	5518.3	5047.0	3816.3	2746.7	1878.7	1367.2	1159.5	1113.0	1109.9	1106.8	1106.8
22.5°	5357.0	4706.0	3369.9	2182.5	1416.8	1094.4	1007.5	988.9	1001.3	1038.5	1038.5
25°	5186.5	4377.4	2876.9	1683.4	1097.5	939.3	889.7	902.1	933.1	967.2	954.8
27.5°	5012.9	4163.5	2411.9	1320.7	899.0	821.5	802.9	830.8	864.9	895.9	886.6
30°	4972.6	3934.1	1971.7	1001.3	771.9	716.1	728.5	753.3	787.4	799.8	812.2
32.5°	5034.6	3754.3	1615.2	821.5	672.7	657.2	657.2	669.6	691.3	719.2	709.9
35°	5211.3	3652.0	1277.3	713.0	616.9	601.4	598.3	610.7	623.1	632.4	623.1
37.5°	5481.1	3571.4	1044.7	632.4	579.7	554.9	548.7	545.6	558.0	561.1	567.3
40°	5825.2	3614.8	886.6	582.8	542.5	514.6	496.0	496.0	496.0	505.3	508.4
42.5°	6197.2	3673.7	765.7	554.9	508.4	474.3	455.7	449.5	455.7	468.1	465.0
45°	6587.8	3788.4	688.2	511.5	477.4	434.0	409.2	403.0	418.5	443.3	440.2
47.5°	6953.6	3952.7	629.3	483.6	446.4	406.1	375.1	368.9	396.8	430.9	434.0
50°	7319.4	4237.9	607.6	461.9	424.7	378.2	350.3	344.1	375.1	418.5	427.8
52.5°	7741.1	4544.8	592.1	434.0	399.9	356.5	325.5	319.3	353.4	409.2	412.3
55°	8017.0	4805.2	579.7	384.4	353.4	322.4	297.6	294.5	331.7	381.3	393.7
57.5°	7694.6	4442.5	536.3	334.8	300.7	285.2	263.5	263.5	294.5	341.0	350.3
60°	5834.5	2923.4	381.3	269.7	254.2	244.9	235.6	235.6	260.4	294.5	297.6
62.5°	3416.4	1574.9	244.9	217.0	217.0	207.7	192.2	192.2	217.0	235.6	238.7
65°	1013.7	505.3	198.4	186.0	182.9	167.4	151.9	148.8	167.4	176.7	173.6
67.5°	291.4	232.5	164.3	155.0	151.9	127.1	117.8	114.7	117.8	111.6	108.5
70°	173.6	158.1	127.1	130.2	114.7	93.0	83.7	80.6	74.4	65.1	58.9
72.5°	96.1	96.1	93.0	99.2	80.6	62.0	52.7	43.4	34.1	27.9	24.8
75°	58.9	62.0	65.1	68.2	52.7	40.3	34.1	21.7	12.4	6.2	6.2
77.5°	40.3	43.4	46.5	49.6	43.4	37.2	27.9	15.5	3.1	0.0	0.0
80°	31.0	34.1	40.3	43.4	46.5	49.6	37.2	15.5	3.1	0.0	0.0
82.5°	34.1	37.2	46.5	43.4	43.4	43.4	34.1	15.5	3.1	0.0	0.0
85°	6.2	9.3	15.5	15.5	21.7	27.9	21.7	6.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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	0.0

(END OF REPORT)