

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: STREETWORKS

Report Number: P459041

Luminaire Tested: **GLAN-SA5C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26842 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

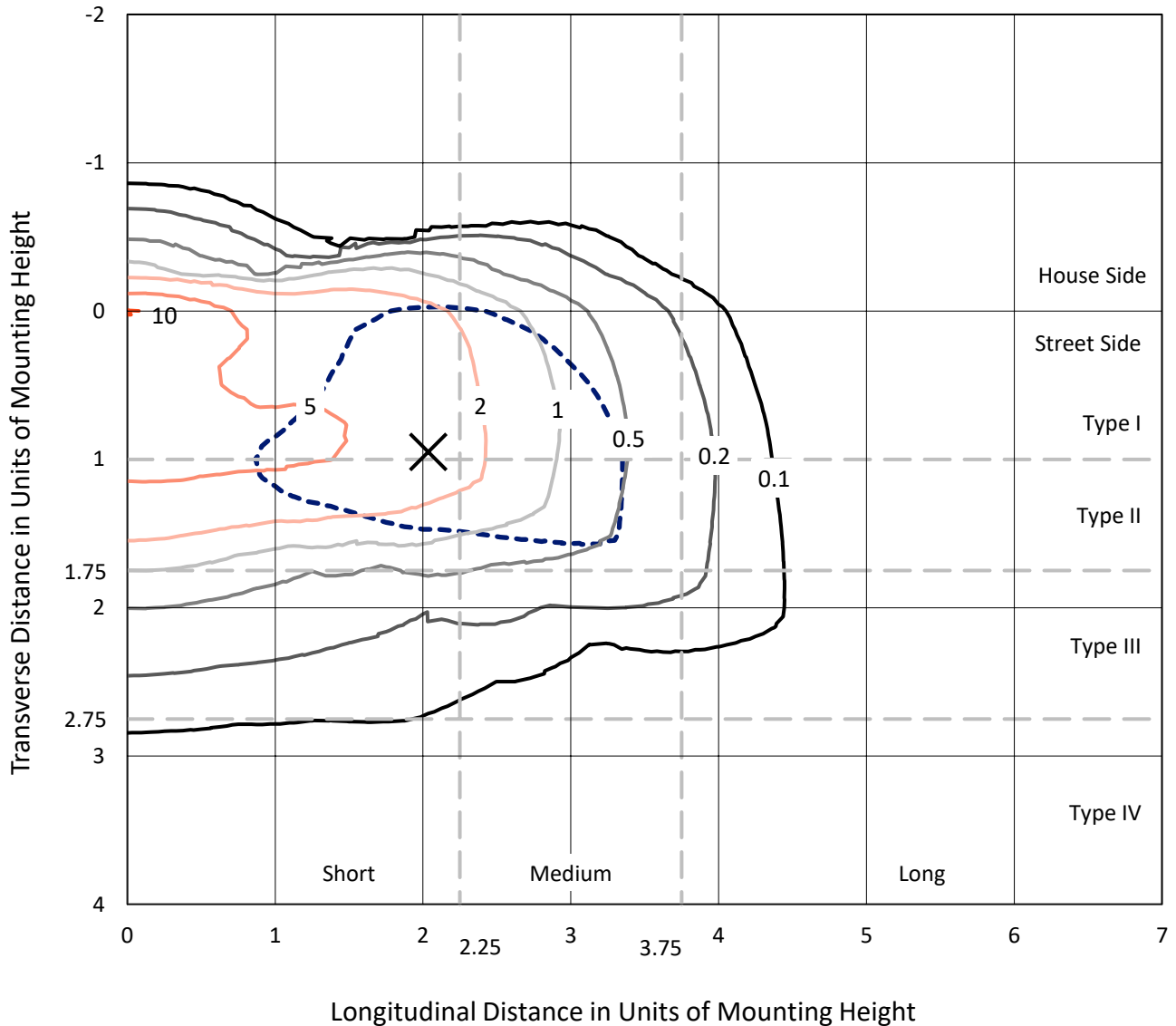
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

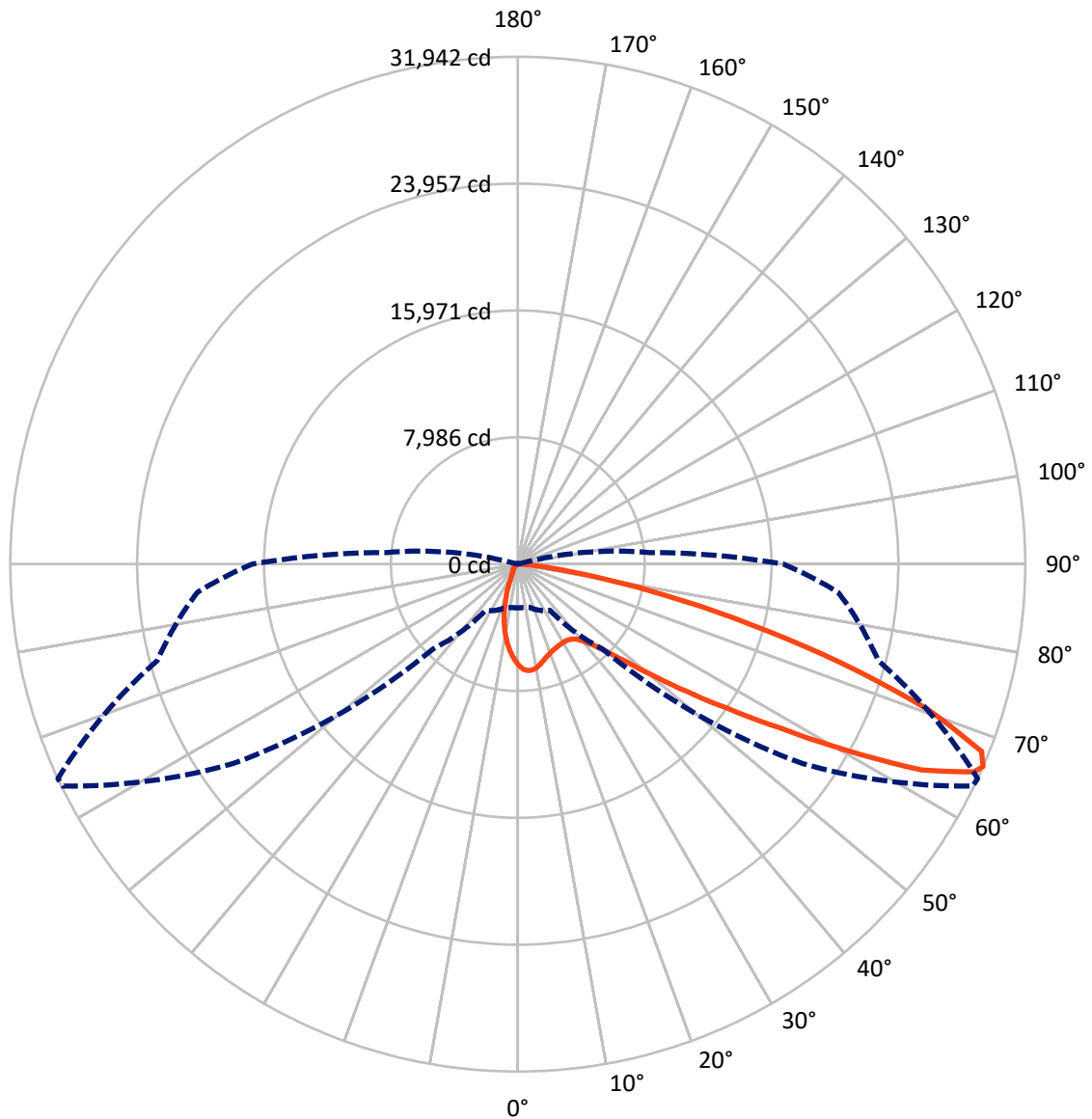
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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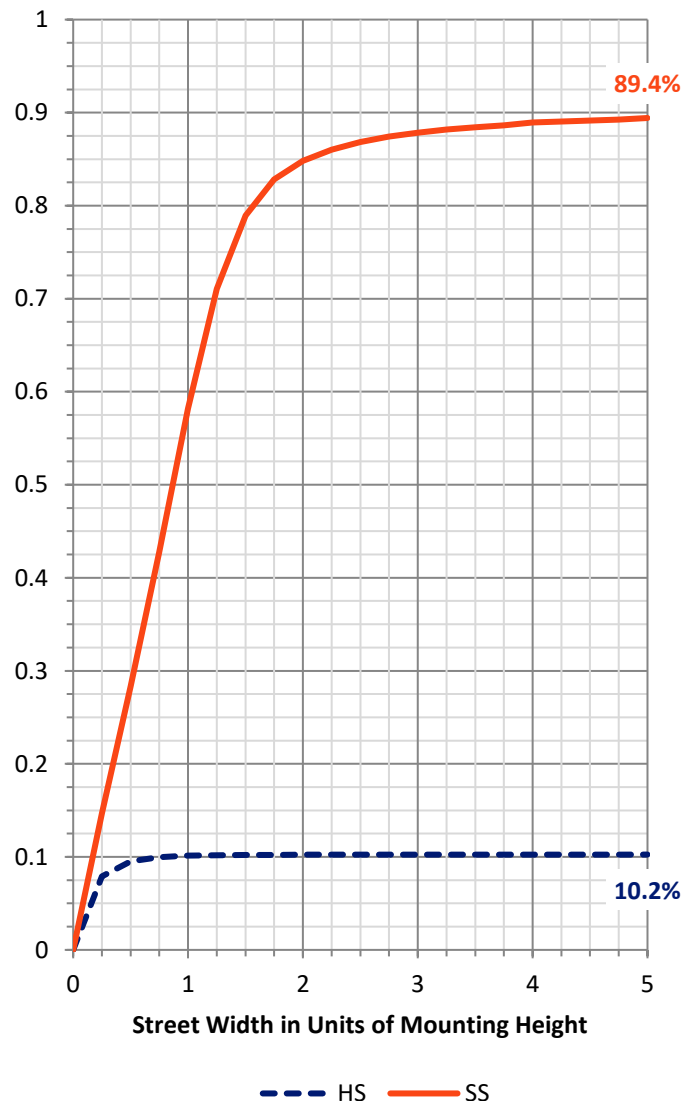
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2775.8	0.0	2775.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24066.2	0.0	24066.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	26842.0	0.0	26842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.6	1.9
10°-20°	1134.3	4.2
20°-30°	1624.8	6.1
30°-40°	2373.2	8.8
40°-50°	3979.5	14.8
50°-60°	6641.1	24.7
60°-70°	7049.3	26.3
70°-80°	3192.6	11.9
80°-90°	326.7	1.2
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°	26842.0	100.0
0°-180°	26842.0	100.0



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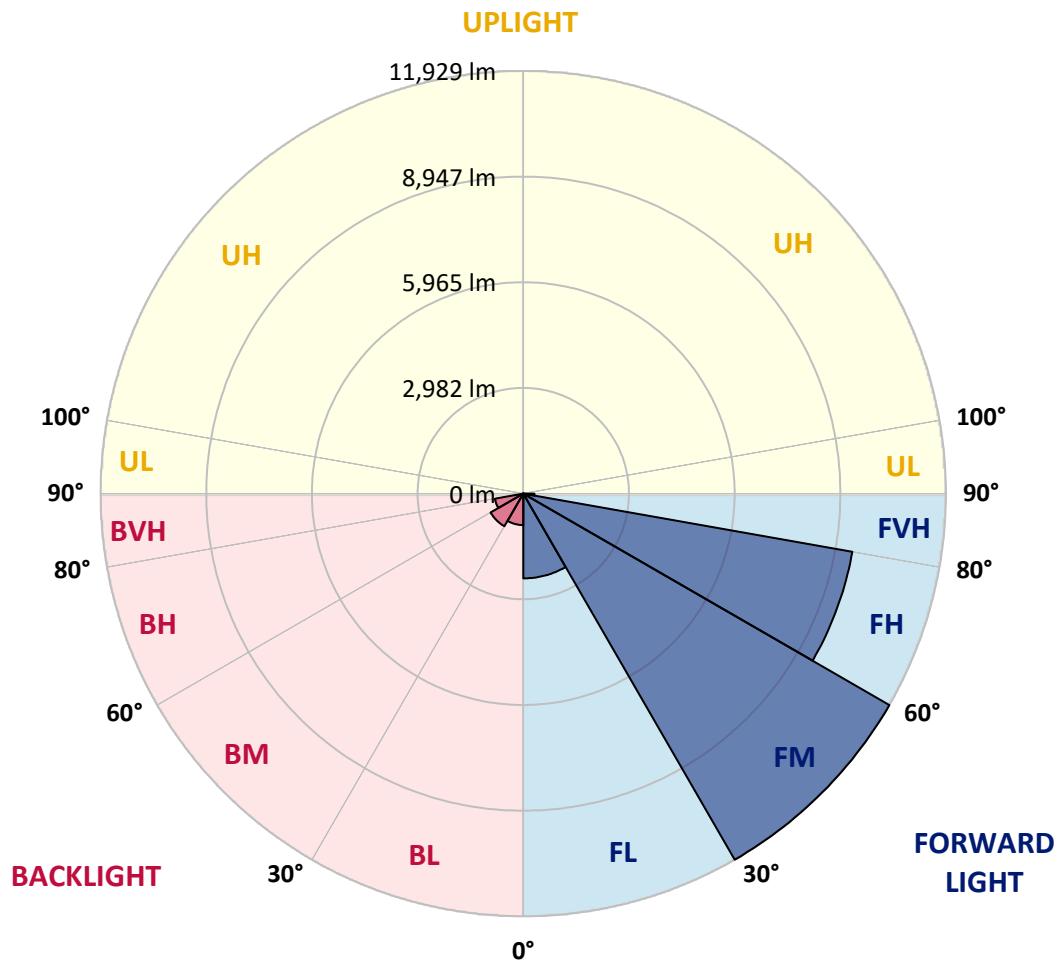
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2391.7	8.9			
FM (30°-60°)	11929.2	44.4			
FH (60°-80°)	9429.0	35.1			G4/12000
FVH (80°-90°)	316.3	1.2			G3/500
BL (0°-30°)	888.0	3.3	B2/1000		
BM (30°-60°)	1064.6	4.0	B2/2500		
BH (60°-80°)	812.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2
2.5°	6707.9	6715.1	6724.2	6736.9	6745.9	6718.8	6680.7	6637.2	6628.1	6535.6	6423.2
5°	6348.9	6359.8	6439.6	6483.1	6581.0	6669.8	6726.0	6733.3	6729.6	6642.6	6463.1
7.5°	5837.7	5868.5	5946.4	6022.6	6205.7	6374.3	6573.7	6713.3	6722.4	6698.8	6475.8
10°	5422.5	5442.4	5482.3	5632.8	5785.1	6042.5	6321.7	6584.6	6606.3	6700.6	6464.9
12.5°	5098.0	5127.0	5175.9	5292.0	5475.1	5718.0	6035.3	6388.8	6434.1	6666.2	6434.1
15°	4871.4	4885.9	4934.8	5049.0	5226.7	5451.5	5772.4	6183.9	6223.8	6620.9	6428.7
17.5°	4764.4	4780.7	4815.2	4905.8	5052.7	5261.1	5574.8	6019.0	6069.7	6591.8	6448.6
20°	4793.4	4807.9	4809.7	4856.9	4956.6	5132.4	5429.8	5864.9	5930.1	6573.7	6481.3
22.5°	4958.4	4960.2	4938.4	4916.7	4951.1	5078.0	5340.9	5767.0	5834.0	6570.1	6519.3
25°	5204.9	5210.4	5174.1	5098.0	5029.1	5094.4	5321.0	5703.5	5763.3	6561.0	6542.9
27.5°	5545.8	5544.0	5533.1	5406.2	5210.4	5166.9	5337.3	5669.1	5719.8	6535.6	6552.0
30°	6022.6	6008.1	5984.5	5841.3	5542.2	5342.7	5406.2	5647.3	5694.4	6499.4	6528.4
32.5°	6492.1	6546.5	6542.9	6406.9	6033.5	5656.4	5549.4	5676.3	5710.8	6475.8	6493.9
35°	7039.6	7037.8	7177.4	7126.7	6689.7	6057.0	5794.2	5772.4	5799.6	6492.1	6477.6
37.5°	7547.3	7594.4	7812.0	7864.5	7465.7	6622.7	6140.4	5979.1	5988.1	6602.7	6517.5
40°	8180.0	8270.6	8595.1	8771.0	8419.3	7462.1	6651.7	6358.0	6359.8	6874.7	6668.0
42.5°	8995.8	9139.0	9441.8	9735.5	9546.9	8455.5	7418.5	6958.1	6954.4	7353.3	7012.4
45°	9987.5	10087.2	10431.6	10897.6	10777.9	9842.4	8535.3	7888.1	7841.0	8138.3	7623.4
47.5°	10843.2	10979.2	11329.1	11860.2	12404.1	11535.7	9869.6	9166.2	9135.4	9387.4	8671.3
50°	11216.7	11336.3	11704.3	12449.5	13767.5	13758.4	11856.6	11031.7	10979.2	11115.1	10292.1
52.5°	10806.9	10919.3	11291.0	12219.2	14409.2	16466.9	14735.6	13372.2	13308.8	13134.7	12228.3
55°	9403.7	9496.2	10045.5	11111.5	14162.7	18272.6	18702.3	16263.9	16017.3	15341.1	14420.1
57.5°	7487.4	7440.3	7781.1	9019.4	12716.0	18878.1	22774.1	19866.2	19425.6	17248.3	16274.8
60°	5188.6	5333.7	5471.4	6287.3	9561.4	17828.4	25306.8	24394.9	23814.8	19124.7	18051.4
62.5°	3814.4	3910.5	4001.2	4378.2	6011.7	14235.2	25754.6	29046.9	28532.0	21117.1	19746.5
65°	3016.7	3024.0	3060.2	3431.9	3961.3	9256.9	23602.7	31670.2	31537.9	23035.2	20433.6
66°	2748.4	2750.2	2806.4	3205.3	3555.2	7538.2	21878.5	31869.7	31942.2	23495.7	20232.4
67.5°	2402.1	2394.9	2476.5	2880.8	3237.9	5435.2	18792.9	31061.1	31490.7	23849.2	19509.0
70°	1861.9	1852.8	1952.5	2416.6	2982.3	3625.9	12491.1	26670.1	27362.7	23125.8	17261.0
72.5°	1240.1	1247.3	1417.7	1907.2	2846.3	3192.6	7514.6	20288.6	21267.6	19097.5	13578.9
75°	723.4	736.1	930.0	1417.7	2471.0	3043.9	4253.2	14467.3	15092.7	13187.3	8459.2
77.5°	378.9	384.3	520.3	935.5	1894.5	2826.4	2833.6	9242.4	9536.1	6408.7	3348.5
80°	201.2	195.8	279.2	563.8	1303.5	2481.9	2298.8	4893.1	5087.1	1903.6	846.6
82.5°	76.1	83.4	148.7	369.8	770.5	1782.1	1979.7	2162.8	2095.8	418.8	355.3
85°	14.5	18.1	63.5	219.4	388.0	745.1	1459.4	1060.6	982.6	157.7	204.9
87.5°	1.8	3.6	18.1	52.6	56.2	252.0	431.5	293.7	253.8	58.0	85.2
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°	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2	6365.2
2.5°	6368.9	6319.9	6156.7	5995.4	5830.4	5681.8	5580.2	5415.2	5373.6	5313.7	5279.3
5°	6356.2	6241.9	5928.3	5585.7	5266.6	4922.1	4659.3	4405.4	4269.5	4200.6	4175.2
7.5°	6319.9	6138.6	5649.1	5112.5	4601.2	4086.4	3638.6	3297.7	3078.4	2927.9	2826.4
10°	6247.4	5997.2	5324.6	4586.7	3814.4	3134.6	2567.1	2135.6	1802.1	1696.9	1700.5
12.5°	6173.1	5839.5	4962.0	4003.0	3045.7	2188.2	1586.3	1245.5	1086.0	1033.4	1022.5
15°	6104.2	5689.0	4606.7	3437.3	2268.0	1417.7	1022.5	902.8	859.3	850.3	848.5
17.5°	6067.9	5549.4	4227.8	2790.1	1582.7	962.7	819.4	786.8	774.1	765.1	761.4
20°	6037.1	5427.9	3865.2	2184.6	1082.3	788.6	734.2	703.4	681.7	672.6	667.2
22.5°	6015.3	5302.8	3489.9	1691.5	828.5	699.8	650.8	611.0	580.1	569.3	562.0
25°	5982.7	5165.1	3111.0	1236.4	698.0	621.8	565.6	518.5	478.6	458.7	455.0
27.5°	5935.6	5009.1	2695.8	915.5	623.7	552.9	484.1	426.0	386.2	364.4	366.2
30°	5859.4	4846.0	2280.7	727.0	563.8	482.2	407.9	351.7	313.6	297.3	295.5
32.5°	5768.8	4648.4	1900.0	623.7	509.4	418.8	340.8	291.9	262.9	250.2	248.4
35°	5683.6	4449.0	1512.0	560.2	453.2	360.8	286.4	244.7	223.0	212.1	213.9
37.5°	5636.4	4271.3	1178.4	509.4	407.9	310.0	246.6	210.3	190.4	181.3	179.5
40°	5667.2	4126.2	937.3	464.1	357.1	266.5	212.1	181.3	161.4	148.7	148.7
42.5°	5812.3	4062.8	756.0	420.6	310.0	230.2	184.9	155.9	134.2	121.5	123.3
45°	6254.6	4129.9	632.7	380.7	266.5	199.4	159.5	128.7	108.8	99.7	97.9
47.5°	6988.9	4381.9	547.5	339.0	228.4	170.4	134.2	107.0	87.0	79.8	78.0
50°	8272.4	4902.2	484.1	297.3	194.0	145.0	110.6	85.2	68.9	61.6	61.6
52.5°	10038.2	6037.1	438.7	250.2	163.2	123.3	90.6	68.9	54.4	48.9	47.1
55°	11883.8	7233.6	415.2	210.3	136.0	101.5	72.5	54.4	41.7	36.3	34.4
57.5°	13658.7	8172.7	388.0	170.4	108.8	78.0	56.2	41.7	29.0	25.4	23.6
60°	15361.0	8932.3	330.0	136.0	85.2	56.2	41.7	29.0	19.9	16.3	16.3
62.5°	16883.9	9374.7	259.3	108.8	65.3	39.9	27.2	21.8	14.5	10.9	10.9
65°	17061.6	8800.0	195.8	83.4	47.1	25.4	16.3	16.3	10.9	7.3	7.3
66°	16704.4	8312.3	172.2	76.1	41.7	21.8	14.5	12.7	9.1	5.4	5.4
67.5°	15906.7	7480.2	148.7	65.3	34.4	16.3	10.9	10.9	7.3	3.6	3.6
70°	13743.9	6109.6	117.8	48.9	25.4	12.7	7.3	7.3	5.4	3.6	3.6
72.5°	10475.2	4561.4	96.1	36.3	18.1	9.1	5.4	5.4	5.4	3.6	3.6
75°	6318.1	2456.5	74.3	27.2	16.3	7.3	3.6	5.4	7.3	5.4	3.6
77.5°	2327.8	835.8	58.0	21.8	12.7	7.3	3.6	3.6	7.3	5.4	5.4
80°	571.1	217.6	41.7	18.1	12.7	7.3	3.6	3.6	7.3	7.3	7.3
82.5°	264.7	92.5	29.0	16.3	12.7	7.3	3.6	3.6	5.4	7.3	7.3
85°	152.3	43.5	23.6	18.1	12.7	7.3	3.6	3.6	5.4	7.3	7.3
87.5°	61.6	21.8	21.8	18.1	14.5	9.1	3.6	3.6	3.6	5.4	5.4
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)