

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: P455450

Luminaire Tested: **GALN-SA6C-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29998 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

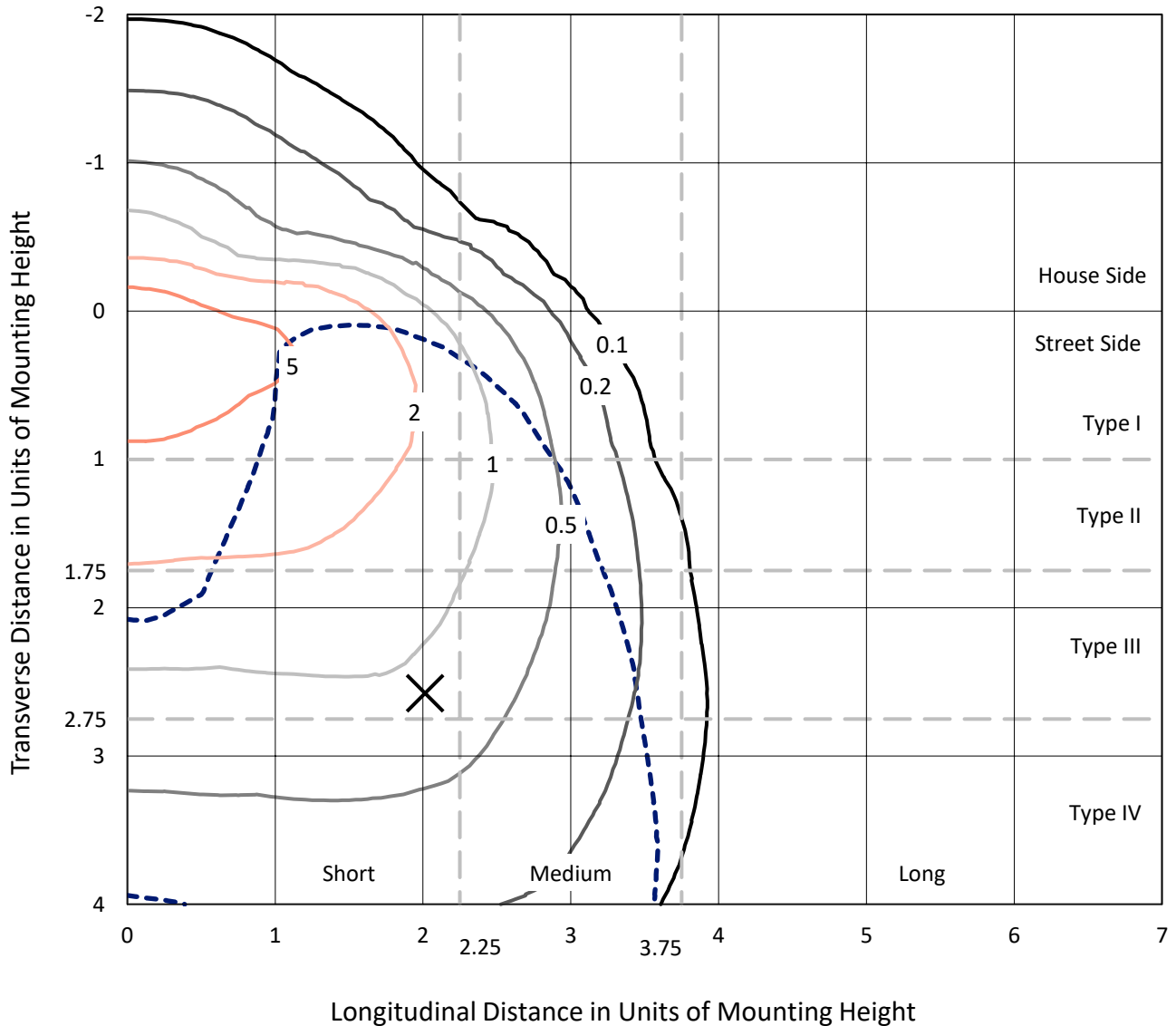
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

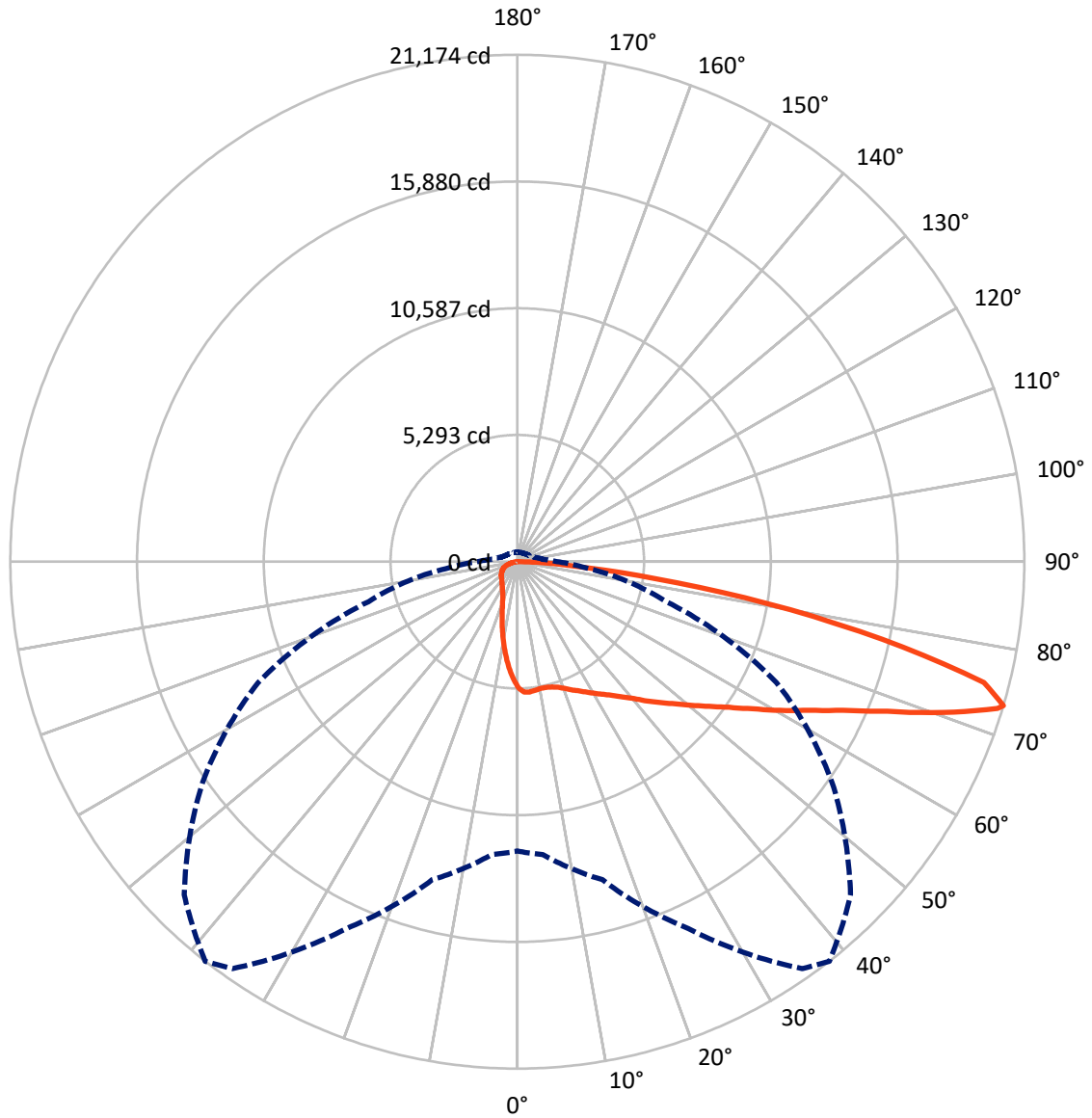
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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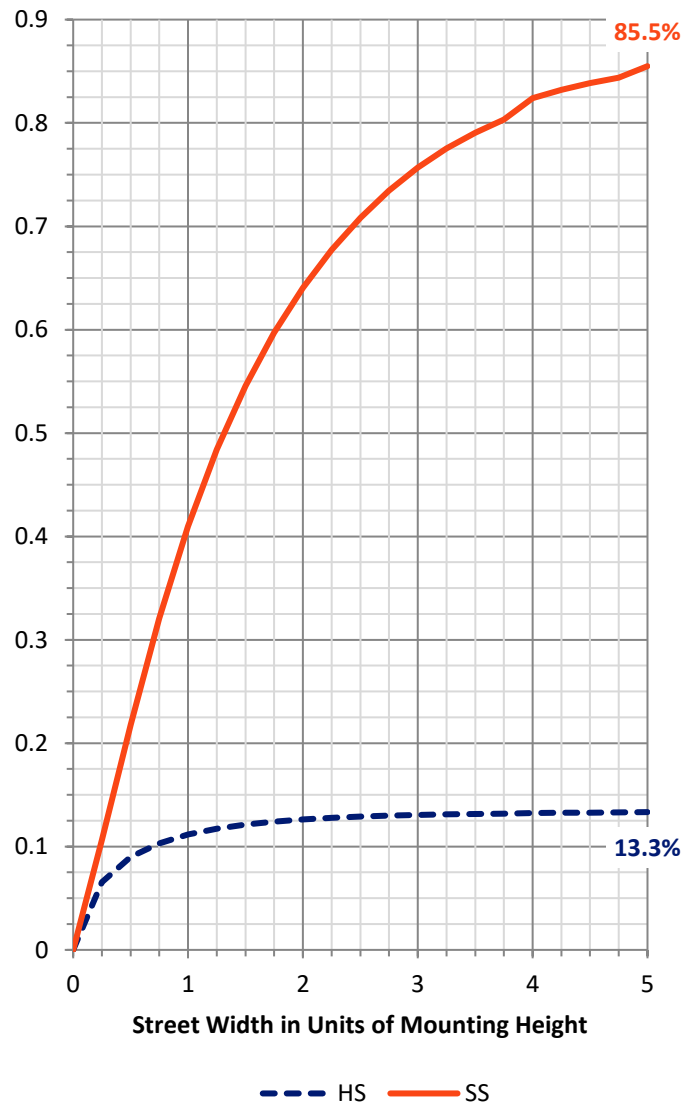
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4032.6	0.0	4032.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25965.4	0.0	25965.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	29998.0	0.0	29998.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.0	1.5
10°-20°	1179.7	3.9
20°-30°	1837.0	6.1
30°-40°	2694.4	9.0
40°-50°	3996.8	13.3
50°-60°	5662.7	18.9
60°-70°	7183.3	23.9
70°-80°	5979.5	19.9
80°-90°	1004.7	3.3
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°	29998.0	100.0
0°-180°	29998.0	100.0



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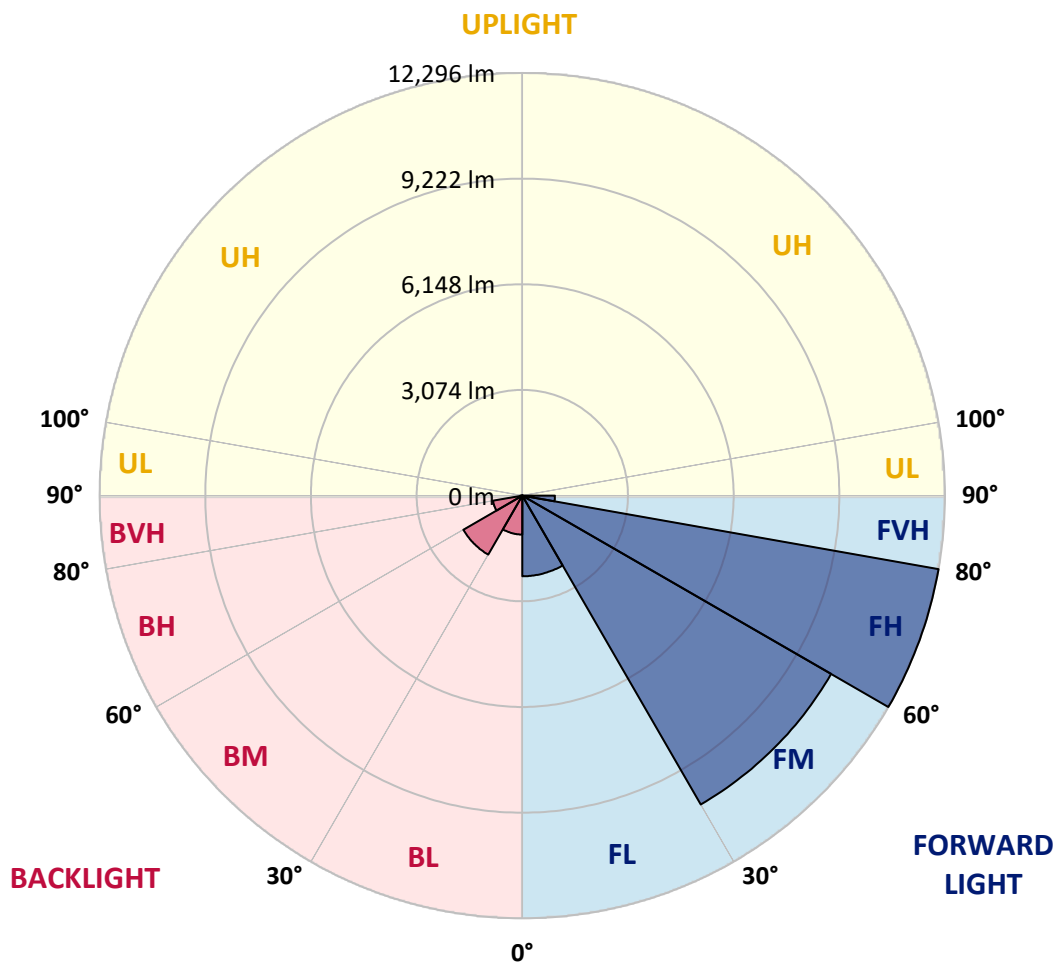
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.0	7.8			
FM (30°-60°)	10374.1	34.6			
FH (60°-80°)	12296.1	41.0			G5
FVH (80°-90°)	950.2	3.2			G5
BL (0°-30°)	1131.6	3.8	B3/2500		
BM (30°-60°)	1979.8	6.6	B2/2500		
BH (60°-80°)	866.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1
2.5°	5481.9	5509.0	5495.4	5476.8	5465.0	5453.1	5436.2	5387.0	5348.1	5305.7	5239.6
5°	5522.6	5539.5	5527.6	5503.9	5476.8	5465.0	5432.8	5368.4	5305.7	5234.6	5136.3
7.5°	5498.8	5505.6	5492.1	5463.3	5439.5	5417.5	5380.3	5309.1	5232.9	5146.5	5017.7
10°	5414.1	5439.5	5439.5	5415.8	5392.1	5380.3	5343.0	5275.2	5205.8	5107.5	4955.0
12.5°	5344.7	5371.8	5393.8	5387.0	5385.3	5385.3	5356.5	5305.7	5224.4	5131.2	4950.0
15°	5297.2	5329.4	5376.9	5404.0	5420.9	5426.0	5414.1	5370.1	5287.1	5178.7	4970.3
17.5°	5287.1	5326.0	5412.4	5471.7	5515.8	5514.1	5510.7	5449.7	5358.2	5246.4	4995.7
20°	5332.8	5383.6	5503.9	5597.1	5661.5	5649.6	5631.0	5551.3	5444.6	5319.3	5019.4
22.5°	5470.0	5522.6	5654.7	5756.3	5819.0	5819.0	5763.1	5658.1	5544.6	5404.0	5051.6
25°	5666.5	5724.1	5864.7	5968.1	5996.9	5974.9	5919.0	5791.9	5661.5	5525.9	5119.4
27.5°	5907.1	5976.6	6107.0	6193.4	6184.9	6168.0	6110.4	5947.8	5817.3	5693.6	5234.6
30°	6206.9	6257.8	6393.3	6413.6	6383.1	6379.7	6298.4	6135.8	6013.8	5919.0	5398.9
32.5°	6489.8	6535.6	6644.0	6652.5	6598.3	6605.0	6528.8	6379.7	6310.3	6276.4	5675.0
35°	6789.7	6813.4	6906.6	6896.4	6860.8	6855.8	6825.3	6683.0	6705.0	6766.0	6066.3
37.5°	7040.4	7087.8	7140.4	7148.8	7147.1	7164.1	7184.4	7116.6	7243.7	7435.1	6579.6
40°	7270.8	7311.5	7389.4	7416.5	7482.5	7516.4	7585.9	7587.6	7880.6	8195.7	7211.5
42.5°	7426.6	7496.1	7641.8	7690.9	7851.8	7953.5	8056.8	8166.9	8592.1	8997.0	7956.9
45°	7562.2	7653.6	7895.9	8048.4	8266.9	8390.6	8609.1	8839.5	9451.0	9981.2	8714.1
47.5°	7767.1	7848.5	8126.3	8395.6	8726.0	8868.3	9195.2	9539.1	10338.7	10919.7	9439.2
50°	8051.7	8100.9	8383.8	8822.5	9244.3	9427.3	9859.3	10355.6	11287.3	11846.4	10076.1
52.5°	8416.0	8436.3	8661.6	9246.0	9801.7	10028.7	10601.3	11180.6	12117.4	12651.0	10580.9
55°	8846.2	8812.4	8988.5	9695.0	10438.6	10735.1	11350.0	12015.8	13050.8	13301.6	10948.5
57.5°	9271.4	9218.9	9359.5	10240.4	11224.7	11582.1	12298.7	12876.4	13884.3	13909.7	11206.0
60°	9722.1	9683.1	9850.8	10880.8	12188.6	12612.1	13274.5	13769.1	14690.7	14333.2	11246.7
62.5°	10184.5	10121.9	10360.7	11600.7	13274.5	13659.0	14301.0	14717.8	15481.8	14490.8	10855.4
65°	10633.5	10604.7	10974.0	12456.2	14511.1	14948.2	15571.6	15854.5	16115.3	14253.6	9884.7
67.5°	11111.2	11168.8	11758.3	13598.0	16123.8	16672.7	17345.2	17079.3	16296.6	13130.5	8324.5
70°	11839.6	11876.9	12788.3	15093.8	18202.4	18864.8	19190.0	17514.6	15422.5	10997.7	6257.8
72.5°	12153.0	12317.3	13708.1	16664.2	20563.9	20968.8	19810.0	16543.9	12847.6	7470.7	3288.1
73°	12083.5	12280.1	13750.5	16903.1	20748.5	21173.7	19677.9	16044.2	11942.9	6433.9	2818.9
75°	11217.9	11460.1	13199.9	16703.2	20389.4	20135.3	17553.6	13674.2	8070.4	2925.6	1284.1
77.5°	8851.3	8920.8	10459.0	13487.9	16056.1	15585.1	13137.2	8546.4	3296.6	1087.6	728.4
80°	4440.1	4695.9	5895.2	7726.5	10736.8	10582.6	8292.3	4042.0	1373.9	638.7	482.8
82.5°	2136.2	2317.4	2871.4	3767.5	5932.5	5791.9	4106.3	2209.0	872.4	372.7	284.6
85°	1375.6	1511.1	1827.9	1797.4	2439.4	2329.3	1844.8	1672.0	516.7	194.8	198.2
87.5°	908.0	994.4	1192.6	953.7	887.7	803.0	814.8	941.9	101.6	74.5	27.1
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°	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1	5270.1
2.5°	5212.5	5190.5	5117.7	5046.5	4978.8	4914.4	4872.0	4816.1	4778.9	4789.0	4804.3
5°	5082.1	5033.0	4904.2	4778.9	4660.3	4519.7	4406.2	4314.7	4245.2	4219.8	4214.8
7.5°	4944.9	4861.9	4677.2	4462.1	4260.5	4086.0	3884.4	3784.5	3667.6	3626.9	3613.4
10°	4861.9	4750.1	4490.9	4191.0	3887.8	3598.1	3379.6	3201.7	3040.8	3010.3	2995.1
12.5°	4838.2	4690.8	4341.8	3955.6	3552.4	3196.6	2873.1	2639.3	2483.5	2447.9	2395.4
15°	4824.6	4641.7	4202.9	3718.4	3206.8	2773.1	2432.6	2159.9	2017.6	1922.7	1924.4
17.5°	4812.8	4585.8	4047.0	3459.2	2908.7	2408.9	2032.8	1787.2	1656.8	1605.9	1600.9
20°	4795.8	4519.7	3867.5	3186.5	2568.2	2076.9	1736.4	1553.4	1465.3	1423.0	1421.3
22.5°	4789.0	4455.3	3691.3	2908.7	2266.6	1821.1	1539.9	1411.1	1355.2	1326.4	1326.4
25°	4806.0	4409.6	3506.7	2644.4	1999.0	1602.6	1404.4	1316.3	1284.1	1268.8	1263.7
27.5°	4858.5	4389.2	3323.7	2380.1	1753.3	1453.5	1312.9	1251.9	1228.2	1216.3	1218.0
30°	4958.4	4387.5	3144.1	2119.2	1570.4	1340.0	1240.0	1197.7	1179.0	1172.3	1170.6
32.5°	5119.4	4424.8	2967.9	1904.1	1416.2	1245.1	1172.3	1141.8	1133.3	1128.2	1126.5
35°	5392.1	4529.8	2793.5	1707.6	1297.6	1160.4	1107.9	1092.7	1080.8	1085.9	1087.6
37.5°	5759.7	4711.1	2627.4	1553.4	1207.8	1097.7	1053.7	1040.1	1033.4	1038.4	1043.5
40°	6252.7	4972.0	2488.5	1429.8	1143.5	1045.2	1006.3	994.4	987.6	996.1	997.8
42.5°	6796.5	5273.5	2373.3	1333.2	1091.0	1001.2	963.9	950.4	945.3	950.4	952.0
45°	7355.5	5624.2	2314.1	1263.7	1046.9	969.0	930.0	914.8	902.9	899.5	904.6
47.5°	7906.1	5929.1	2312.4	1221.4	1011.3	940.2	897.8	880.9	865.7	857.2	855.5
50°	8355.0	6171.4	2353.0	1202.8	980.8	908.0	865.7	848.7	828.4	811.4	814.8
52.5°	8693.8	6328.9	2371.6	1194.3	963.9	874.1	831.8	816.5	792.8	770.8	770.8
55°	8912.3	6366.2	2325.9	1185.8	950.4	838.5	792.8	779.3	755.5	733.5	733.5
57.5°	8986.9	6251.0	2161.6	1165.5	936.8	808.1	753.8	742.0	723.4	701.3	697.9
60°	8814.1	5861.4	1873.6	1104.5	909.7	775.9	711.5	706.4	699.6	681.0	679.3
62.5°	8148.3	5034.7	1560.2	1024.9	864.0	742.0	672.5	681.0	686.1	675.9	674.2
65°	7040.4	4087.7	1333.2	914.8	803.0	694.6	630.2	652.2	665.8	665.8	662.4
67.5°	5710.6	3139.0	1123.1	819.9	726.7	630.2	582.7	599.7	609.9	606.5	614.9
70°	4058.9	2126.0	914.8	711.5	630.2	557.3	521.8	521.8	515.0	511.6	511.6
72.5°	1968.5	1214.6	742.0	594.6	537.0	476.0	447.2	435.4	421.8	420.1	411.7
73°	1644.9	1089.3	708.1	572.6	515.0	464.2	432.0	413.3	404.9	398.1	396.4
75°	1001.2	826.7	591.2	482.8	438.8	399.8	371.0	354.1	345.6	340.5	338.8
77.5°	659.0	616.6	459.1	369.3	335.4	311.7	299.8	282.9	277.8	271.0	271.0
80°	491.3	470.9	328.6	260.9	240.6	220.2	216.8	213.4	199.9	191.4	188.0
82.5°	316.8	335.4	223.6	174.5	152.5	135.5	137.2	142.3	128.7	116.9	113.5
85°	225.3	242.2	135.5	79.6	64.4	55.9	62.7	55.9	57.6	45.7	37.3
87.5°	37.3	64.4	23.7	10.2	5.1	3.4	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)