

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: P323327

Luminaire Tested: **GLEON-SA3C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 13148 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 166
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

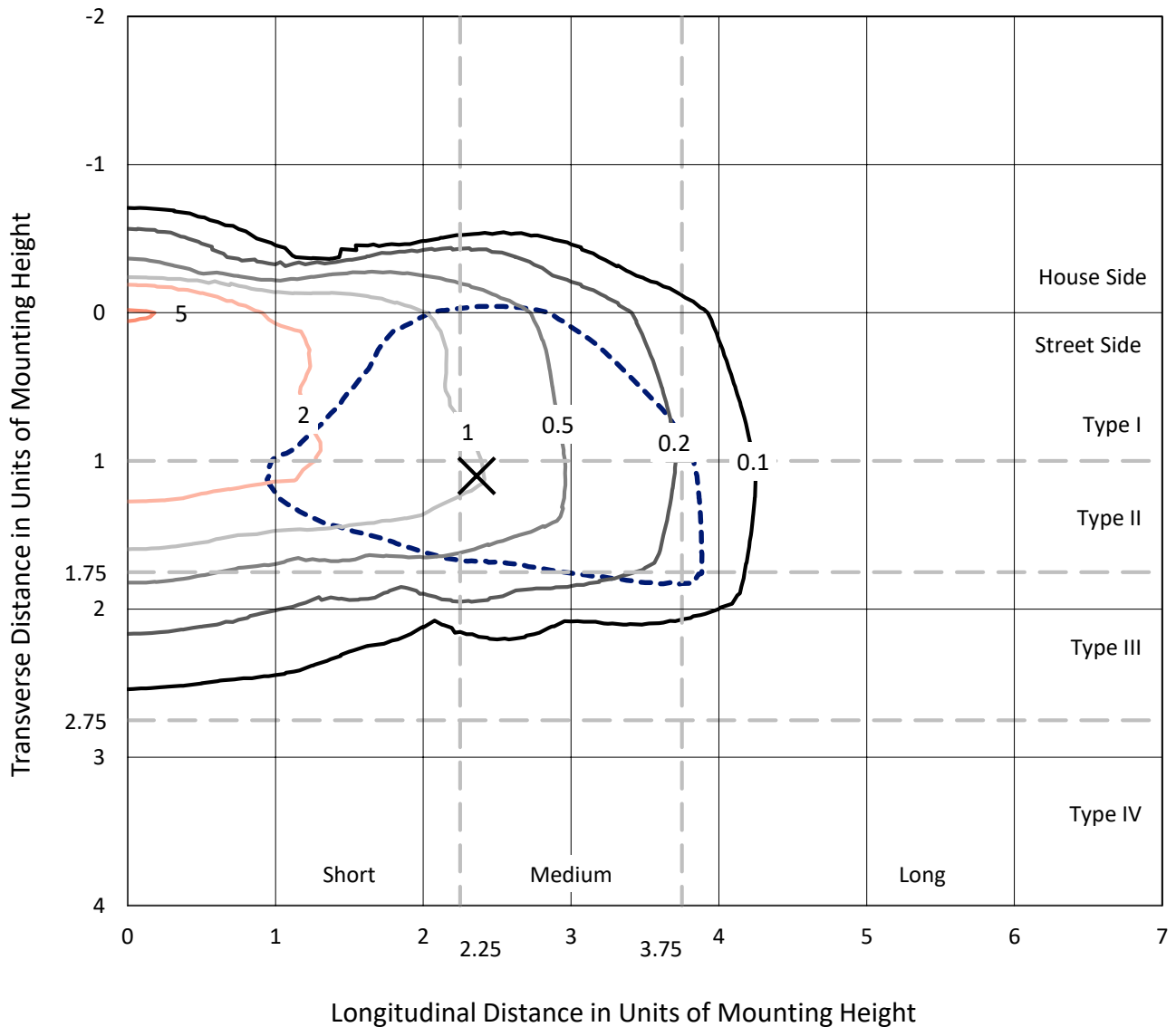




REPORT NUMBER: P323327
 CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

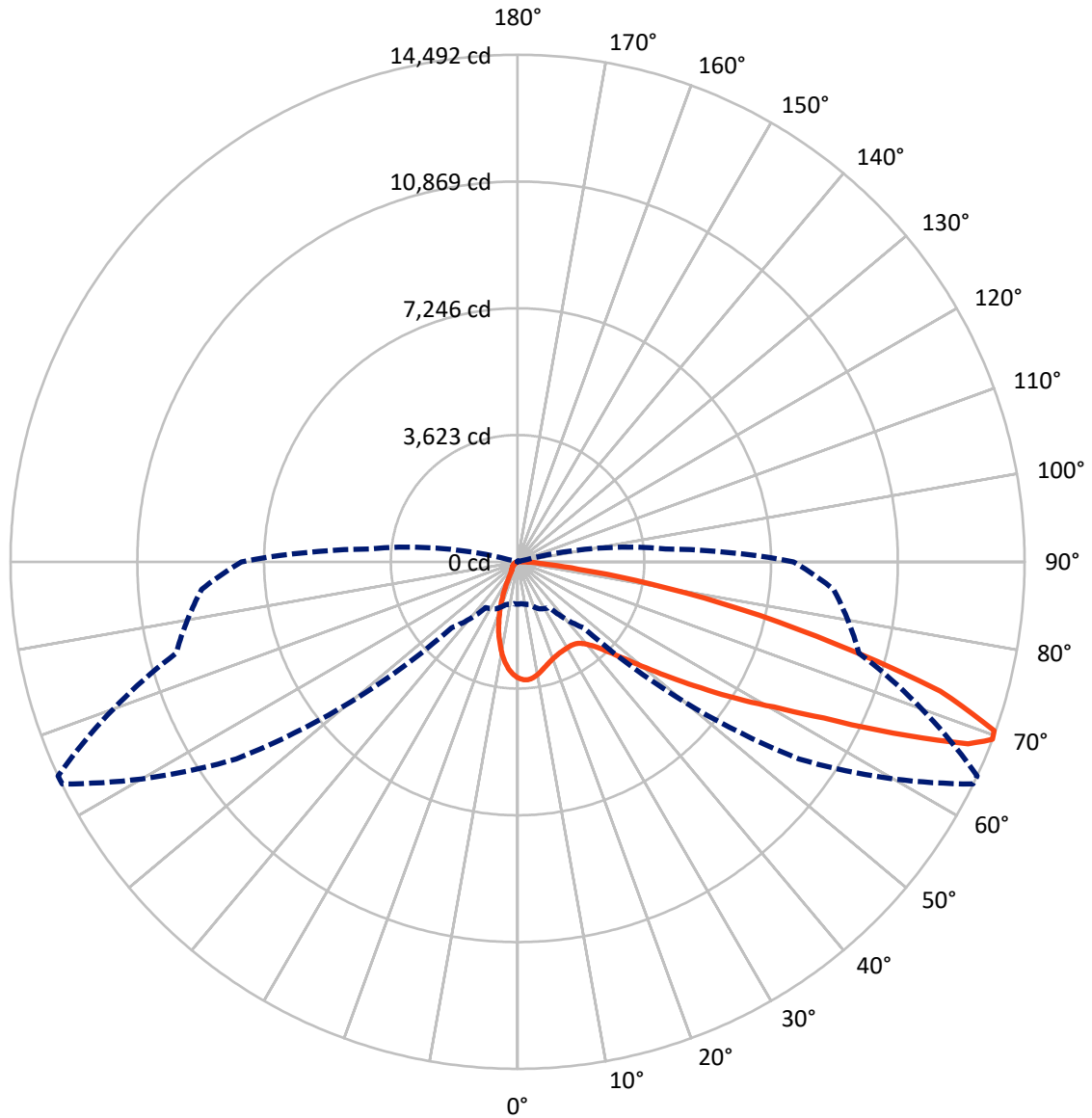
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P323327
CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323327
 CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

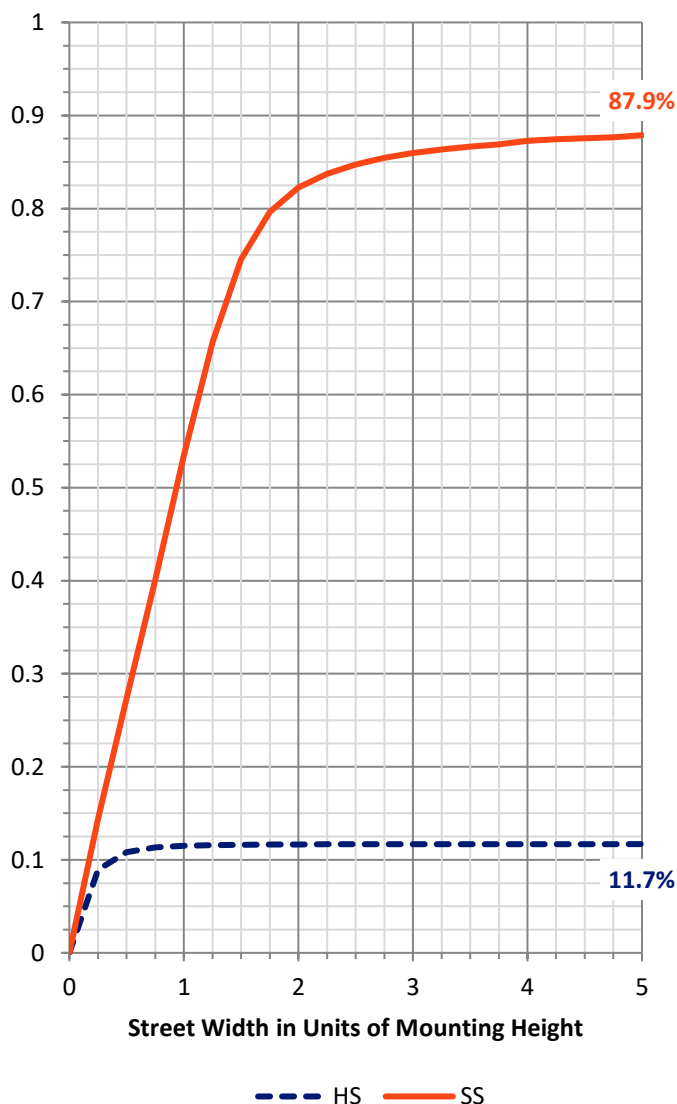
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.8	0.0	1549.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11598.2	0.0	11598.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	13148.0	0.0	13148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	2.1
10°-20°	608.2	4.6
20°-30°	842.4	6.4
30°-40°	1174.5	8.9
40°-50°	1825.6	13.9
50°-60°	2930.8	22.3
60°-70°	3315.2	25.2
70°-80°	1947.0	14.8
80°-90°	226.5	1.7
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°	13148.0	100.0
0°-180°	13148.0	100.0

Coefficient of Utilization

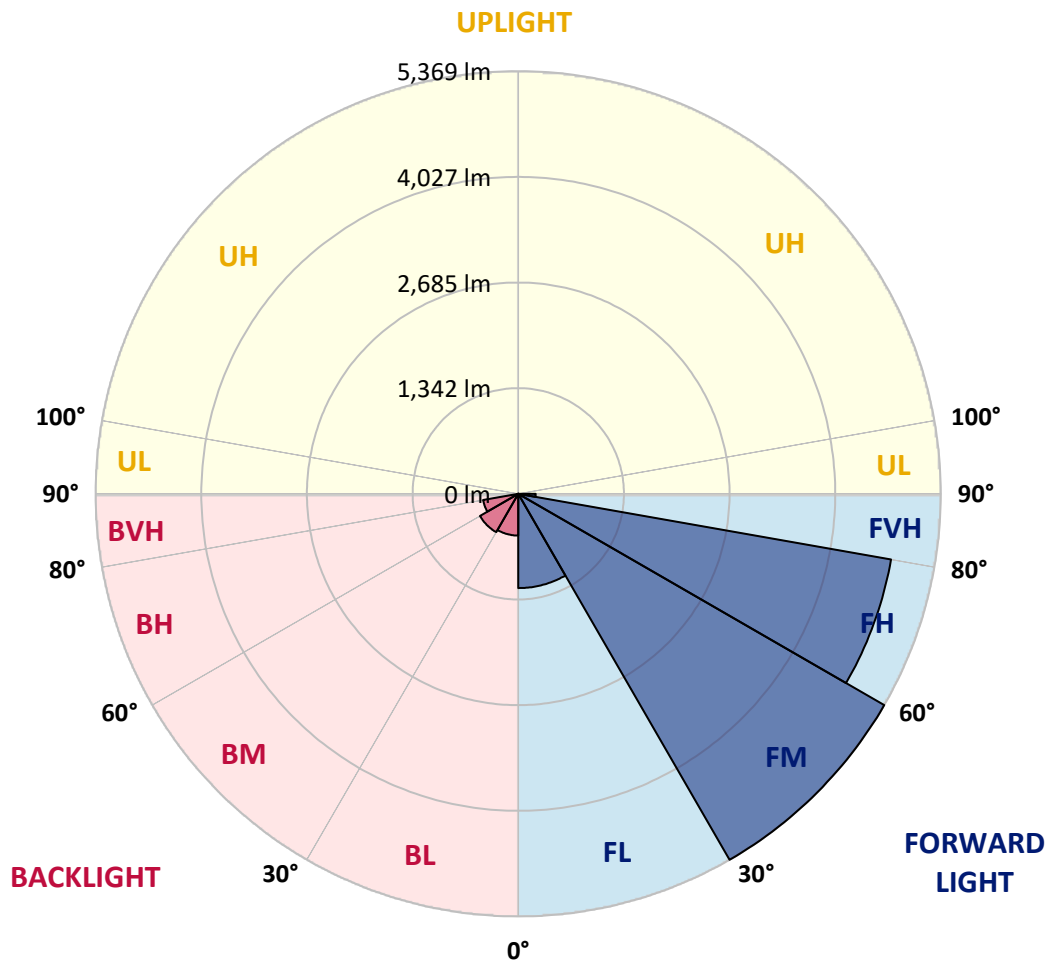


REPORT NUMBER: P323327
 CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.1	9.1			
FM (30°-60°)	5369.3	40.8			
FH (60°-80°)	4809.4	36.6			G2/5000
FVH (80°-90°)	221.4	1.7			G2/225
BL (0°-30°)	530.3	4.0	B2/1000		
BM (30°-60°)	561.6	4.3	B1/1000		
BH (60°-80°)	452.8	3.4	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





REPORT NUMBER: P323327

CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3352.0	3343.7	3350.3	3364.8	3372.0	3372.0	3377.6	3370.9	3373.2	3357.0	3333.6
5°	3142.3	3129.5	3147.8	3188.4	3238.5	3281.4	3344.8	3378.2	3381.5	3382.1	3354.8
7.5°	2916.4	2904.7	2932.0	2979.8	3044.3	3123.9	3234.6	3331.4	3337.0	3389.3	3369.3
10°	2732.8	2724.4	2756.2	2807.3	2883.0	2972.0	3107.8	3242.4	3258.5	3374.3	3367.0
12.5°	2587.0	2580.4	2610.4	2669.4	2746.7	2845.2	2987.0	3143.4	3165.1	3340.3	3355.9
15°	2480.8	2479.7	2504.7	2561.4	2647.1	2738.9	2884.1	3051.6	3076.6	3303.6	3354.2
17.5°	2425.1	2426.8	2445.2	2493.6	2567.0	2658.2	2797.3	2974.2	3001.5	3270.8	3362.6
20°	2419.6	2421.2	2431.2	2458.5	2518.0	2598.7	2726.7	2909.2	2937.5	3246.3	3375.9
22.5°	2468.5	2467.4	2470.2	2467.4	2500.8	2562.0	2679.9	2859.1	2891.9	3230.2	3386.5
25°	2562.5	2560.9	2559.8	2539.2	2516.9	2549.8	2660.5	2830.7	2861.9	3218.5	3392.6
27.5°	2693.3	2692.2	2690.5	2656.6	2589.8	2569.2	2662.7	2820.1	2846.3	3209.0	3391.5
30°	2865.2	2873.0	2870.8	2823.5	2719.4	2628.8	2686.1	2814.6	2837.4	3190.7	3379.8
32.5°	3067.2	3082.7	3095.0	3044.3	2914.2	2746.7	2740.0	2820.7	2837.4	3176.8	3358.7
35°	3276.9	3296.9	3342.0	3324.2	3152.8	2924.2	2832.9	2857.4	2871.3	3184.5	3348.7
37.5°	3483.3	3507.2	3605.1	3656.9	3465.5	3159.0	2977.6	2948.1	2955.3	3231.8	3359.8
40°	3723.1	3759.3	3907.8	3991.3	3838.8	3473.3	3194.0	3103.9	3106.7	3335.9	3411.5
42.5°	4038.0	4075.3	4236.0	4366.8	4259.4	3870.5	3487.8	3342.0	3339.2	3530.6	3533.4
45°	4421.9	4460.8	4627.2	4772.4	4724.0	4341.2	3863.9	3689.7	3686.4	3837.7	3764.3
47.5°	4856.9	4895.3	5043.9	5193.5	5245.8	4890.9	4342.9	4164.3	4156.5	4264.4	4120.9
50°	5230.2	5255.3	5392.1	5593.5	5829.4	5566.3	4938.7	4766.8	4758.5	4831.3	4644.4
52.5°	5366.0	5380.5	5519.5	5801.6	6390.2	6480.9	5721.5	5500.1	5494.0	5525.7	5341.5
55°	5091.2	5117.3	5288.1	5706.5	6694.0	7514.6	6709.6	6408.0	6361.9	6293.4	6070.3
57.5°	4342.3	4384.0	4567.6	5124.0	6552.1	8334.7	8161.7	7435.1	7367.2	6948.8	6662.8
60°	3253.5	3304.7	3457.2	4057.5	5794.9	8626.8	9748.4	8579.5	8426.5	7470.7	7207.5
62.5°	2232.6	2258.2	2361.7	2752.8	4267.8	8148.3	11075.8	10112.2	9832.9	8038.1	7796.7
65°	1705.2	1714.1	1756.4	1891.0	2541.4	6618.9	11603.8	12134.6	11796.8	8716.9	8408.1
67.5°	1374.2	1367.0	1425.4	1617.9	1701.9	4038.0	10987.9	14047.8	13889.8	9624.3	9023.4
69°	1211.7	1201.7	1261.2	1484.9	1598.4	2669.4	9822.9	14482.3	14492.4	10103.3	9065.7
70°	1090.4	1097.1	1156.1	1405.9	1563.3	2095.2	8710.2	14371.6	14450.6	10282.5	8812.0
72.5°	728.3	746.1	864.6	1167.2	1503.3	1585.6	5259.2	12332.6	12636.4	9879.1	7560.2
75°	410.6	423.9	564.7	880.1	1416.5	1509.9	2777.9	9085.8	9379.5	8261.2	5830.0
77.5°	201.4	208.6	319.3	568.0	1184.5	1438.7	1575.6	6171.6	6507.1	5392.1	3297.5
80°	85.1	89.0	159.7	350.5	846.8	1373.1	1170.0	3798.2	3839.9	2112.5	878.5
82.5°	32.8	33.9	67.3	218.6	538.0	1070.4	978.6	1800.9	1757.5	397.8	200.3
85°	3.9	4.5	24.5	131.3	299.3	550.8	795.0	776.1	718.2	79.0	102.9
87.5°	0.0	0.0	1.7	40.1	89.0	258.1	413.4	322.1	290.4	25.6	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323327

CATALOG NUMBER: GLEON-SA3C-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5	3322.5
2.5°	3314.2	3308.6	3278.6	3235.2	3194.0	3142.8	3093.9	3064.4	3041.0	3025.4	3043.8
5°	3323.1	3298.6	3207.4	3090.5	2975.9	2846.8	2726.7	2624.9	2584.8	2540.3	2560.3
7.5°	3320.3	3274.1	3110.0	2901.9	2691.6	2474.1	2268.2	2109.7	2027.3	1946.7	1967.3
10°	3306.4	3228.5	2979.8	2671.6	2356.7	2044.0	1751.9	1530.0	1405.9	1293.5	1309.6
12.5°	3275.8	3167.3	2826.3	2407.9	1986.7	1574.5	1232.3	948.0	795.6	728.3	736.6
15°	3257.4	3107.8	2663.8	2140.8	1591.7	1096.6	753.3	560.2	490.7	468.4	471.2
17.5°	3248.5	3050.5	2495.8	1835.4	1187.8	698.2	486.8	429.5	414.5	410.6	411.7
20°	3239.6	2992.6	2322.8	1533.3	818.4	469.6	400.0	383.3	377.8	372.8	373.9
22.5°	3224.6	2937.0	2136.9	1227.3	551.9	381.1	360.5	344.4	332.7	326.6	327.7
25°	3206.2	2878.6	1947.2	914.1	402.8	339.9	320.5	297.6	283.7	272.6	273.2
27.5°	3176.8	2806.8	1751.4	665.4	338.3	304.3	278.2	253.1	229.8	217.0	217.0
30°	3135.6	2725.6	1533.9	476.2	303.2	269.3	237.6	206.4	181.4	169.7	168.6
32.5°	3090.0	2641.0	1314.1	361.1	275.4	236.4	200.3	167.5	145.2	135.7	135.2
35°	3051.0	2549.8	1094.9	302.7	247.6	204.7	165.2	137.4	119.6	111.8	111.3
37.5°	3026.0	2458.5	881.3	270.4	222.5	175.3	138.5	113.5	100.7	94.6	94.0
40°	3022.1	2390.6	686.0	245.9	199.2	149.1	115.7	96.2	84.6	77.9	77.3
42.5°	3072.7	2351.7	526.3	225.3	175.3	126.3	98.5	82.3	70.1	63.4	62.9
45°	3205.7	2363.9	405.0	207.0	151.3	106.8	83.5	68.4	57.3	52.3	51.2
47.5°	3448.3	2448.5	322.1	188.6	128.5	90.7	71.2	56.7	47.3	42.3	41.7
50°	3880.0	2647.1	269.3	168.6	107.4	77.3	59.0	46.2	38.4	33.9	33.4
52.5°	4453.0	3001.0	240.3	149.1	89.0	65.6	48.4	36.7	30.0	26.7	26.1
55°	5085.0	3429.3	221.4	128.0	72.9	54.5	38.4	28.9	23.4	20.6	19.5
57.5°	5702.0	3800.4	203.6	107.4	60.6	44.5	30.6	22.8	18.4	15.6	15.0
60°	6269.0	4141.5	183.0	86.2	49.5	35.1	23.9	17.8	14.5	11.7	11.7
62.5°	6875.9	4405.2	154.7	67.3	40.6	26.7	19.5	16.1	11.7	10.0	9.5
65°	7519.1	4601.0	121.3	52.3	31.7	20.0	16.1	16.7	9.5	7.2	6.7
67.5°	7994.2	4562.1	89.6	41.2	24.5	15.6	15.6	17.8	8.3	5.6	5.0
69°	7889.6	4245.5	75.1	35.6	21.1	13.4	14.5	17.8	7.8	5.0	4.5
70°	7586.4	3895.0	66.2	31.7	18.9	12.2	13.9	17.2	7.2	5.0	4.5
72.5°	6317.9	2933.6	51.7	23.9	15.0	10.0	11.7	15.0	7.2	5.0	3.9
75°	4752.3	1877.7	39.5	17.2	11.1	7.8	8.9	11.1	7.2	4.5	3.9
77.5°	2585.9	677.1	28.4	11.7	7.8	6.1	6.1	8.3	6.7	3.3	2.2
80°	664.8	170.2	17.8	7.8	6.1	4.5	3.9	5.6	3.9	0.6	0.0
82.5°	164.1	38.4	9.5	5.6	4.5	1.7	1.7	2.8	1.7	0.0	0.0
85°	90.1	18.9	6.1	3.9	2.2	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	46.2	5.6	1.7	1.1	0.6	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)