

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: P450855

Luminaire Tested: **GALN-SA1C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4089 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 57
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

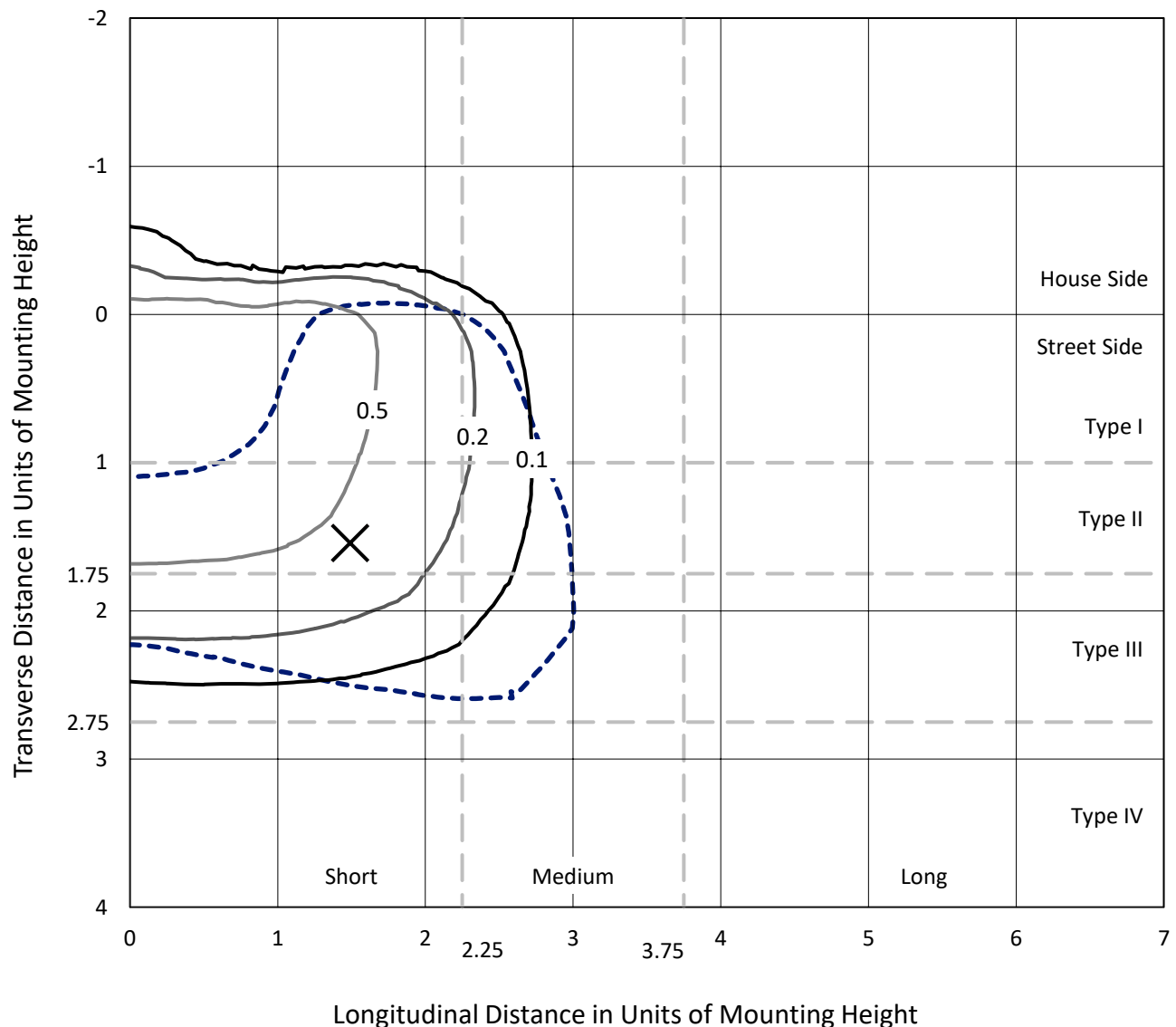


REPORT NUMBER: P450855

CATALOG NUMBER: GALN-SA1C-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

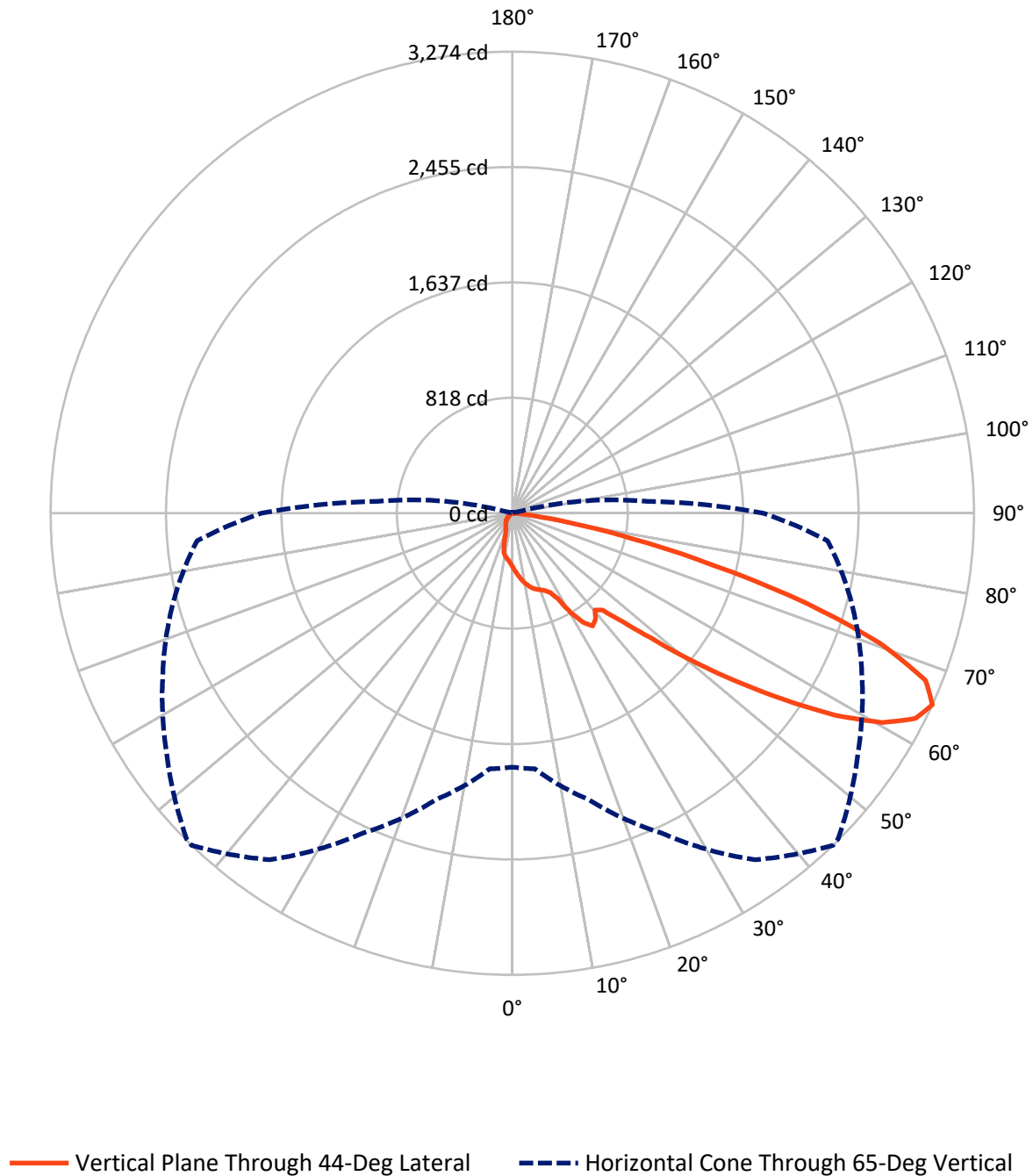
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P450855
CATALOG NUMBER: GALN-SA1C-830-U-T4W-HSS

Luminous Intensity Polar Plot



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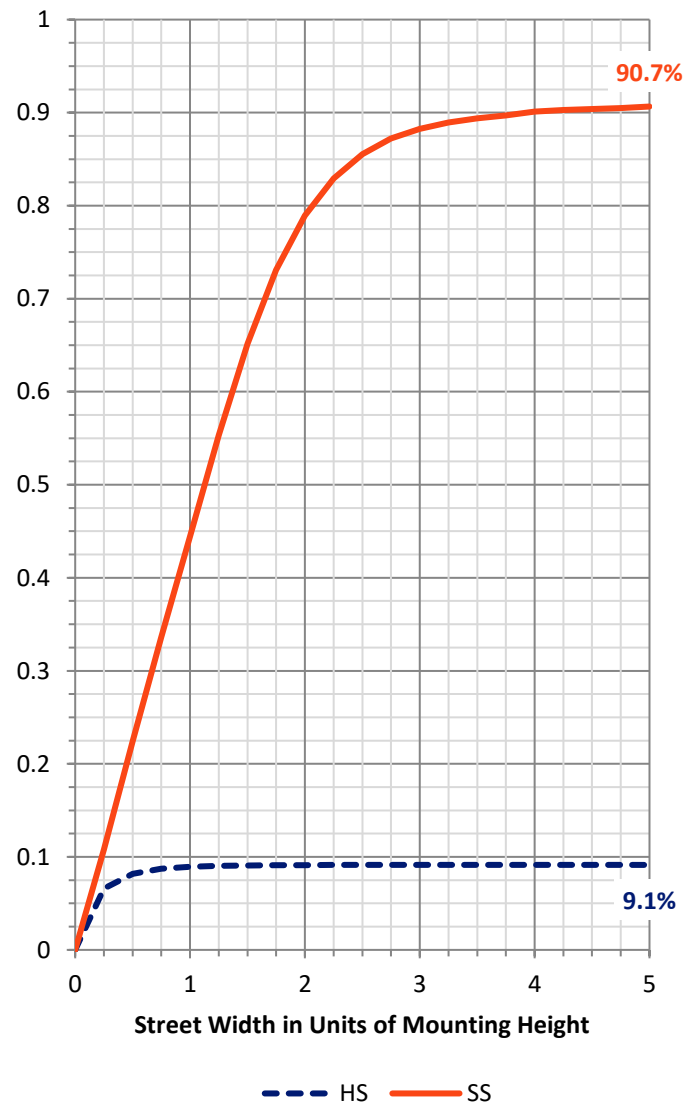
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.7	0.0	376.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3712.3	0.0	3712.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	4089.0	0.0	4089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.9
10°-20°	113.9	2.8
20°-30°	193.2	4.7
30°-40°	321.2	7.9
40°-50°	560.8	13.7
50°-60°	1095.5	26.8
60°-70°	1271.1	31.1
70°-80°	462.9	11.3
80°-90°	32.6	0.8
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°	4089.0	100.0
0°-180°	4089.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450855

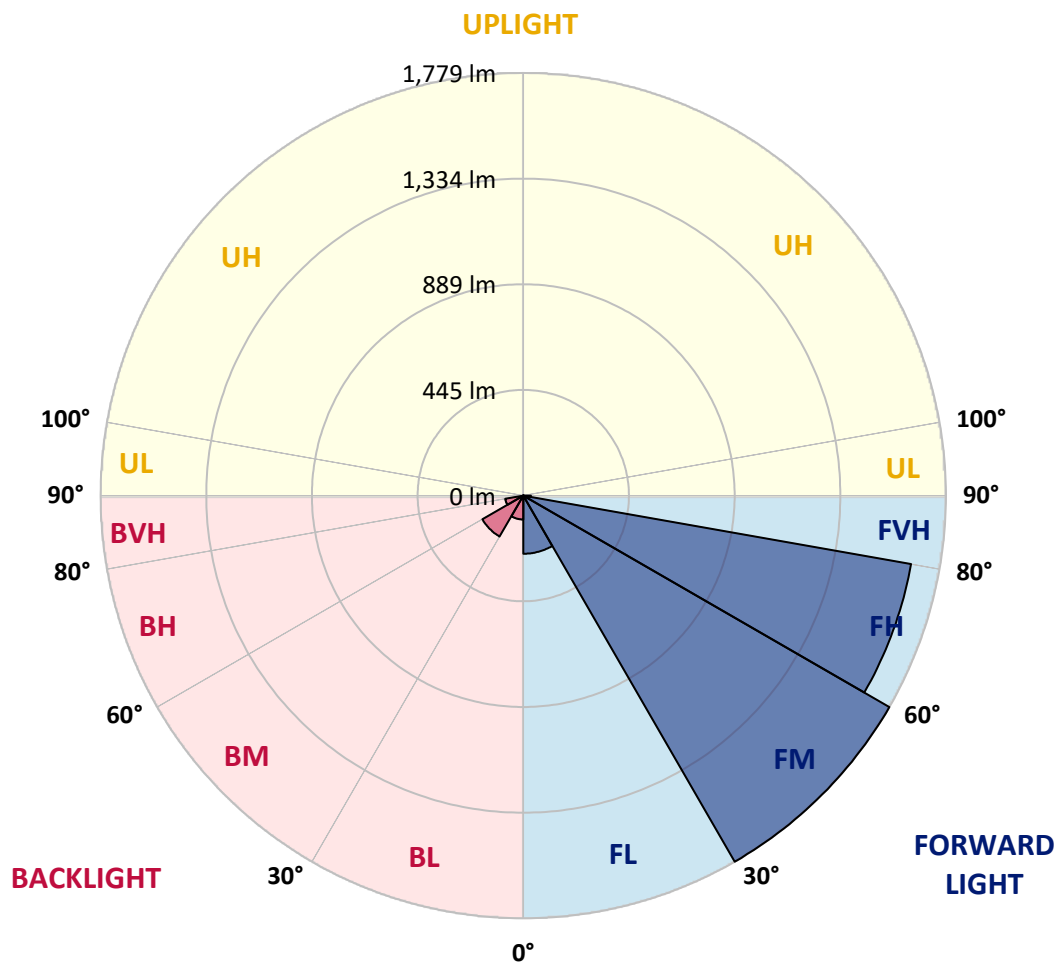
CATALOG NUMBER: GALN-SA1C-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.6	6.0			
FM	(30°-60°)	1778.7	43.5			
FH	(60°-80°)	1656.8	40.5			G1/1800
FVH	(80°-90°)	32.2	0.8			G1/100
BL	(0°-30°)	100.4	2.5	B0/110		
BM	(30°-60°)	198.8	4.9	B0/220		
BH	(60°-80°)	77.1	1.9	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





REPORT NUMBER: P450855

CATALOG NUMBER: GALN-SA1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	428.4	426.5	425.6	420.6	416.8	412.1	412.1	406.2	399.3	391.8	384.9
5°	476.2	473.0	469.0	464.6	455.9	443.4	443.4	430.9	416.5	403.7	389.6
7.5°	522.1	519.3	512.4	504.0	489.6	476.5	475.5	457.4	440.2	420.9	400.9
10°	562.4	560.2	554.3	538.0	523.0	505.9	505.5	485.2	465.2	441.5	416.8
12.5°	590.5	590.8	583.0	567.4	548.0	531.8	530.5	510.5	489.6	464.0	433.7
15°	610.5	610.5	602.4	584.9	567.4	553.0	551.8	534.3	512.7	484.9	452.1
17.5°	616.2	618.0	609.3	593.7	579.6	567.1	566.8	552.1	534.9	508.0	470.9
20°	614.0	615.8	609.0	596.8	587.1	579.9	579.0	573.0	557.1	531.8	490.9
22.5°	609.3	611.2	606.2	599.0	594.3	596.5	594.9	599.9	591.5	560.8	514.6
25°	610.2	612.1	608.3	604.3	608.3	621.8	625.8	647.4	639.9	597.7	540.2
27.5°	639.6	643.3	638.0	639.9	654.3	685.5	693.3	730.5	697.4	644.6	580.2
30°	704.9	702.4	692.4	701.4	751.4	817.7	815.5	809.6	757.7	698.6	627.7
32.5°	764.3	762.1	761.4	800.5	891.1	923.3	921.7	864.2	811.7	760.5	674.6
35°	788.3	779.9	778.0	872.7	1024.2	981.7	972.0	886.7	877.4	828.0	722.4
37.5°	860.8	854.9	825.8	884.5	971.1	957.0	949.5	925.5	947.3	887.7	776.4
40°	1010.2	993.6	967.3	909.9	895.8	901.7	909.2	975.2	1030.1	969.2	848.6
42.5°	1195.7	1192.0	1143.3	1036.1	930.8	938.9	948.6	1078.9	1149.2	1092.0	966.4
45°	1418.5	1423.8	1353.5	1227.0	1088.9	1095.8	1109.8	1232.0	1310.4	1282.9	1151.7
47.5°	1621.0	1616.9	1593.2	1461.6	1334.2	1318.9	1341.7	1428.5	1533.5	1537.9	1381.7
50°	1824.7	1846.3	1811.0	1759.4	1664.7	1632.6	1624.1	1666.6	1826.6	1805.6	1657.9
52.5°	2117.5	2128.7	2062.5	2049.4	2070.9	1966.6	1958.1	1968.4	2111.5	2039.7	1864.7
55°	2301.5	2294.9	2270.3	2372.7	2458.0	2327.8	2317.1	2275.6	2348.1	2205.0	2063.7
57.5°	2359.6	2369.0	2426.5	2611.8	2813.6	2703.0	2683.6	2565.5	2518.7	2359.0	2246.8
60°	2333.7	2350.9	2474.9	2750.5	3030.5	3013.9	2997.3	2798.9	2641.1	2487.7	2375.2
62.5°	2149.0	2173.1	2371.5	2725.8	3103.9	3207.3	3186.7	2944.5	2722.7	2550.2	2397.7
65°	1801.0	1818.8	2103.7	2501.8	2999.5	3273.5	3266.0	2990.1	2735.5	2493.0	2243.7
67.5°	1283.9	1344.5	1608.5	2108.4	2690.8	3160.4	3173.2	2935.5	2615.2	2245.9	1858.1
70°	807.1	848.3	1037.6	1509.4	2157.2	2772.7	2814.9	2685.2	2269.6	1750.7	1243.9
72.5°	384.9	415.6	550.5	955.5	1522.6	2181.5	2215.0	2204.3	1755.0	1102.9	641.8
75°	171.5	183.1	262.8	487.7	983.0	1466.3	1552.9	1567.2	1096.7	539.6	249.6
77.5°	87.5	87.8	123.1	236.2	490.9	874.9	892.0	942.3	594.6	237.8	86.9
80°	46.6	49.7	65.3	111.5	254.6	430.9	428.7	471.2	263.7	116.5	29.1
82.5°	20.9	23.1	36.9	58.4	124.4	163.4	176.2	192.8	113.1	74.4	12.8
85°	6.2	7.5	18.1	29.4	45.0	47.2	52.8	68.1	64.1	52.8	6.6
87.5°	0.9	0.9	7.5	8.1	6.6	8.4	8.7	9.7	20.6	19.4	3.4
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: P450855

CATALOG NUMBER: GALN-SA1C-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6	380.6
2.5°	381.2	379.0	371.2	364.6	359.0	355.6	351.5	349.0	347.8	346.8	347.1
5°	382.8	377.4	364.0	353.4	345.3	336.5	330.6	327.1	325.6	323.1	323.1
7.5°	391.5	383.1	364.3	348.1	334.0	322.1	310.9	306.8	304.0	303.4	302.8
10°	404.0	393.4	367.8	345.3	325.3	309.0	293.1	279.0	268.1	261.5	260.6
12.5°	419.6	404.3	373.1	343.4	317.8	289.0	246.8	218.4	199.3	193.4	194.3
15°	434.0	417.4	378.4	341.8	304.0	239.6	191.8	159.3	149.7	148.7	149.0
17.5°	451.2	431.5	384.6	339.6	266.2	183.1	142.5	133.7	135.6	138.7	138.4
20°	469.0	446.5	392.1	326.5	212.5	137.8	125.9	126.9	129.7	132.5	133.1
22.5°	488.0	463.7	400.9	295.0	162.2	120.0	119.4	120.6	123.4	126.5	127.2
25°	514.3	485.2	407.4	253.7	122.8	110.9	112.2	114.4	116.9	120.3	120.9
27.5°	548.0	514.3	410.9	200.0	106.2	102.8	103.1	106.2	109.4	112.5	112.5
30°	591.8	549.0	404.0	151.2	98.1	95.0	93.7	95.6	99.7	102.8	103.1
32.5°	630.8	581.8	385.9	115.6	92.2	87.8	84.7	85.0	86.5	88.4	88.7
35°	669.9	613.7	354.9	97.2	85.9	80.9	76.2	73.7	72.5	71.6	72.5
37.5°	719.9	653.3	313.7	88.4	80.6	74.4	67.8	62.5	58.1	55.3	55.9
40°	784.2	708.3	265.0	82.8	75.6	68.1	59.4	52.5	45.0	42.5	41.2
42.5°	890.5	791.7	213.7	78.1	70.6	61.6	50.6	41.2	34.4	31.9	32.5
45°	1058.3	897.0	164.7	73.1	65.6	54.4	42.5	32.5	26.9	25.6	26.2
47.5°	1280.7	1033.3	126.9	67.5	59.4	46.6	33.4	25.6	22.2	21.9	21.6
50°	1490.1	1160.1	105.9	61.2	51.9	38.7	27.5	21.6	19.4	19.1	19.1
52.5°	1679.4	1251.0	86.2	54.1	43.7	31.9	23.1	19.1	17.2	16.2	16.2
55°	1847.8	1310.4	70.0	45.3	34.4	25.3	20.0	17.2	15.0	13.7	13.4
57.5°	1975.0	1317.6	52.5	36.2	25.6	19.7	17.2	15.0	12.5	10.9	10.3
60°	2029.4	1255.4	38.7	27.5	19.1	15.6	13.7	12.2	9.4	7.8	7.5
62.5°	1974.7	1134.5	28.7	20.9	14.7	11.6	9.7	9.1	6.6	4.7	4.4
65°	1778.8	959.8	22.8	15.9	10.9	8.4	6.2	5.9	4.1	2.2	1.9
67.5°	1425.1	751.8	18.1	11.9	7.8	5.6	4.1	3.7	2.2	0.6	0.6
70°	926.7	480.5	14.7	8.7	5.0	3.7	2.5	1.9	1.2	0.3	0.0
72.5°	458.4	224.7	11.9	6.9	3.4	1.9	0.9	0.6	0.9	0.0	0.0
75°	177.8	80.0	8.7	4.7	1.9	0.9	0.6	0.0	0.3	0.0	0.0
77.5°	59.1	26.6	5.3	2.5	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	21.9	10.3	2.8	1.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	4.1	1.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	2.5	1.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.9	1.2	0.9	0.6	0.3	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)