

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: P192809

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3889.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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: 25 FT



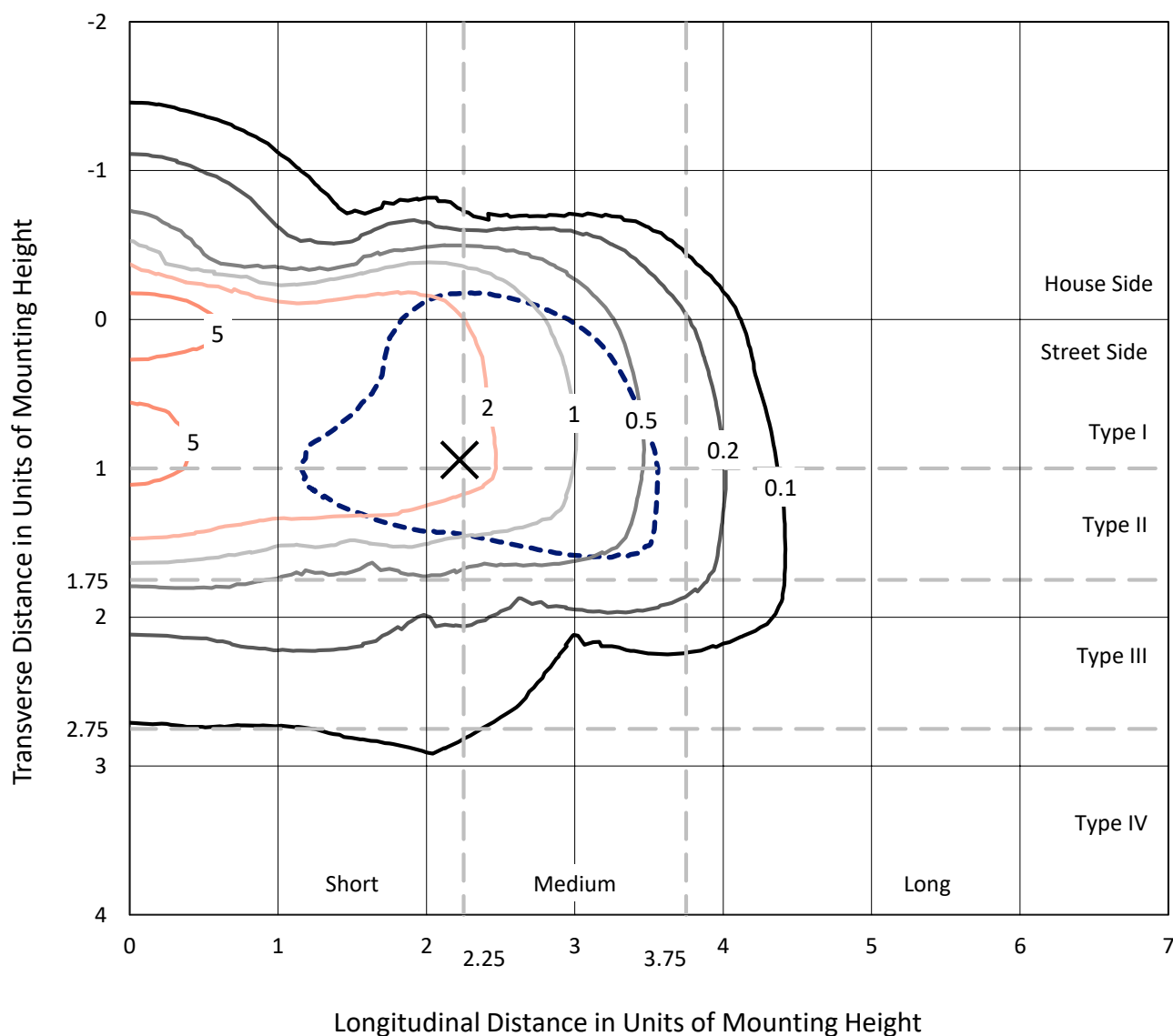
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

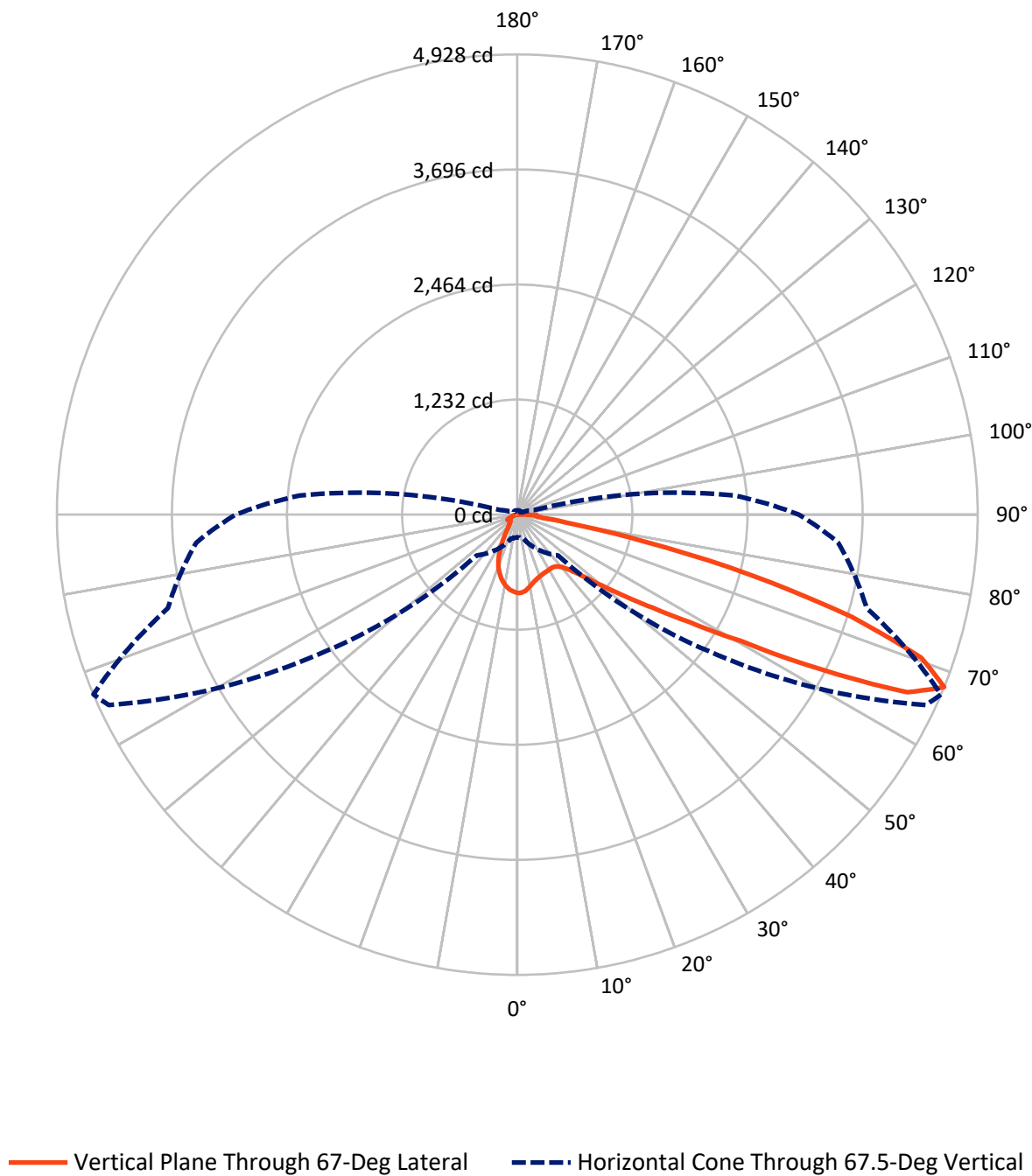


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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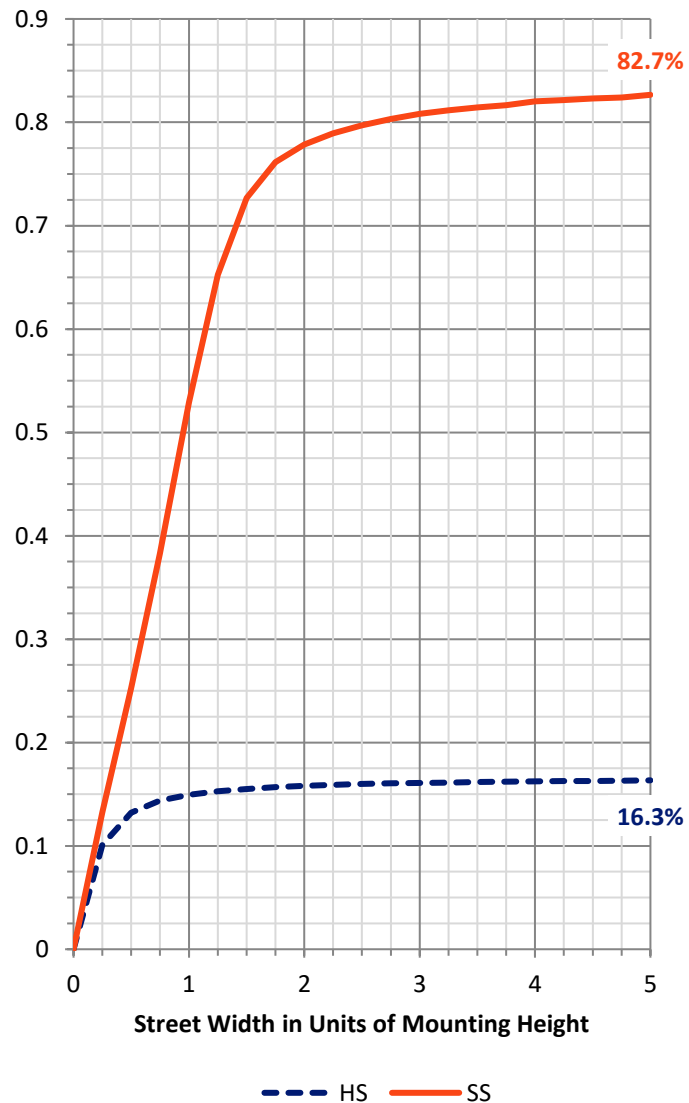
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	644.5	0.0	644.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3245.2	0.0	3245.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	3889.6	0.0	3889.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.8
10°-20°	165.6	4.3
20°-30°	224.5	5.8
30°-40°	319.1	8.2
40°-50°	534.0	13.7
50°-60°	844.7	21.7
60°-70°	1076.1	27.7
70°-80°	563.7	14.5
80°-90°	90.4	2.3
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°	3889.6	100.0
0°-180°	3889.6	100.0

Coefficient of Utilization



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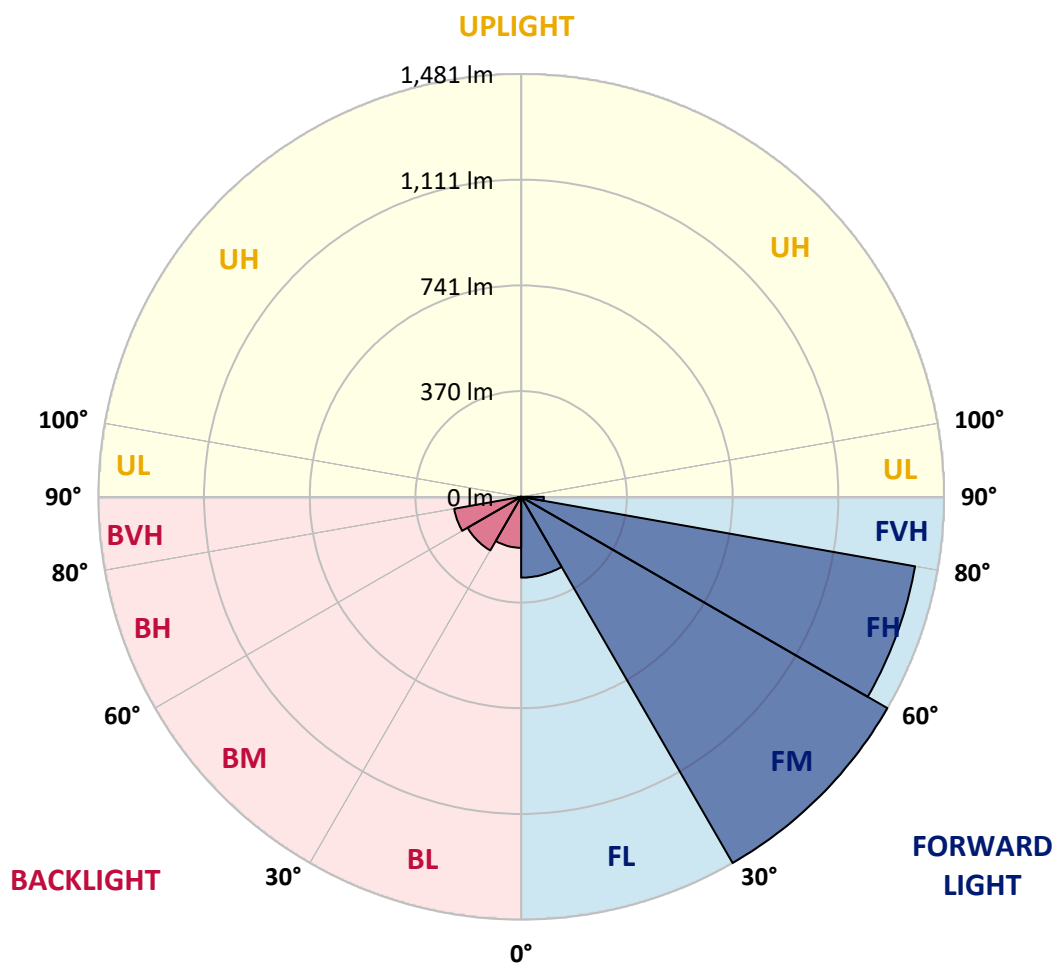
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.1	7.3			
FM	(30°-60°)	1481.2	38.1			
FH	(60°-80°)	1401.4	36.0			G1/1800
FVH	(80°-90°)	79.5	2.0			G1/100
BL	(0°-30°)	178.6	4.6	B1/500		
BM	(30°-60°)	216.6	5.6	B0/220		
BH	(60°-80°)	238.4	6.1	B1/500		G1/500
BVH	(80°-90°)	10.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0
2.5°	804.4	805.8	810.0	812.7	824.8	830.0	833.6	837.3	837.8	839.5	837.8
5°	720.0	723.0	730.8	739.5	763.0	781.4	800.8	821.0	824.6	837.7	841.3
7.5°	654.7	653.9	660.4	671.0	694.9	720.4	754.4	794.6	802.4	831.7	845.8
10°	606.9	606.3	613.3	624.2	647.1	671.2	709.5	764.4	775.5	822.2	850.2
12.5°	571.7	571.8	578.7	590.8	614.0	638.4	677.3	735.2	749.4	811.4	855.0
15°	548.2	549.7	555.2	568.1	590.8	615.1	653.3	713.4	729.3	802.7	860.1
17.5°	540.3	542.8	544.7	554.2	573.5	597.8	635.3	697.2	714.1	796.8	864.7
20°	547.6	550.4	546.9	550.1	562.3	583.9	621.1	684.6	701.9	790.1	865.3
22.5°	578.8	581.6	570.9	561.5	560.7	573.7	609.3	674.5	692.4	785.1	865.5
25°	633.9	635.7	617.7	595.8	574.4	570.2	601.2	667.7	686.7	780.6	861.8
27.5°	701.5	702.7	682.1	649.9	607.1	578.7	598.3	663.6	683.4	776.9	855.7
30°	783.5	789.8	762.1	721.4	659.1	604.2	603.9	661.6	679.8	770.3	843.6
32.5°	867.5	870.2	851.0	809.8	729.1	649.1	620.1	663.1	678.8	762.4	828.3
35°	952.7	956.1	943.7	910.5	824.8	714.9	651.6	672.1	684.7	759.8	817.5
37.5°	1063.0	1067.6	1050.3	1012.0	941.3	804.0	703.9	694.8	703.0	767.4	814.2
40°	1237.4	1235.2	1184.8	1127.7	1068.5	918.3	778.8	733.1	737.9	792.1	824.3
42.5°	1440.4	1435.1	1348.3	1258.4	1208.6	1056.3	877.7	799.7	798.6	840.9	859.4
45°	1602.2	1598.0	1519.7	1409.0	1369.1	1213.6	1005.6	898.8	891.8	918.3	924.2
47.5°	1689.9	1690.0	1645.0	1554.6	1553.6	1413.5	1170.0	1042.4	1030.0	1042.5	1036.3
50°	1659.2	1663.2	1658.4	1629.6	1722.0	1675.5	1384.7	1242.4	1217.5	1229.9	1205.5
52.5°	1510.7	1515.9	1544.3	1588.4	1792.8	1992.2	1700.1	1491.0	1462.2	1457.7	1430.8
55°	1247.5	1253.9	1311.7	1431.8	1734.0	2204.9	2197.5	1807.8	1762.1	1720.4	1708.9
57.5°	859.9	870.5	963.6	1141.6	1543.5	2269.1	2790.1	2259.6	2166.3	2021.0	2023.6
60°	484.7	497.0	606.9	768.6	1159.1	2199.3	3240.8	2943.8	2746.9	2372.9	2392.9
62.5°	308.2	321.4	405.0	533.9	695.6	1823.3	3425.6	3894.9	3645.0	2806.8	2826.3
65°	249.5	255.3	294.7	440.8	505.0	1098.5	3285.3	4678.5	4585.3	3357.4	3266.2
67.5°	243.6	245.5	265.8	370.0	484.3	617.5	2620.6	4825.0	4928.3	3871.7	3449.4
70°	240.7	247.5	299.6	353.1	463.8	520.7	1574.8	4423.4	4586.6	4006.2	3205.5
72.5°	116.8	116.5	150.8	319.4	522.5	540.2	809.1	3579.0	3742.7	3470.8	2634.1
75°	94.2	86.1	82.3	117.0	502.4	557.8	515.6	2462.7	2581.2	2327.0	1619.2
77.5°	89.4	79.8	73.1	73.3	212.3	591.5	436.7	1363.0	1397.5	1051.1	443.7
80°	74.1	65.2	60.4	68.1	102.8	563.3	472.2	616.9	566.1	258.2	147.7
82.5°	51.4	46.8	45.5	57.2	82.3	401.4	549.1	331.5	277.9	129.3	91.1
85°	32.8	28.0	31.0	41.6	64.0	185.3	565.6	258.4	205.4	82.1	51.4
87.5°	15.2	12.2	15.3	23.1	41.8	63.9	538.2	290.2	211.5	43.3	32.4
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°	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0	839.0
2.5°	839.3	835.8	832.9	827.4	821.5	815.7	810.6	804.0	802.2	800.5	803.2
5°	842.1	838.4	827.8	811.4	793.1	776.1	759.1	744.4	735.5	730.4	733.3
7.5°	846.1	840.9	819.0	788.8	756.0	726.0	695.1	670.5	652.2	643.5	646.0
10°	849.7	839.7	804.0	758.6	710.6	666.2	617.5	577.1	547.3	531.5	535.4
12.5°	851.2	835.3	783.2	721.0	655.2	590.0	518.3	458.1	415.0	399.4	396.1
15°	852.8	830.4	760.1	678.3	588.3	496.0	395.5	323.4	287.7	279.8	278.2
17.5°	853.2	821.7	734.1	631.8	509.8	384.1	270.4	224.6	224.8	237.4	239.0
20°	849.2	808.8	702.4	574.0	415.8	265.6	185.6	177.8	206.7	238.4	242.2
22.5°	839.9	791.8	666.6	506.8	308.2	175.0	143.6	152.3	189.7	228.5	232.8
25°	828.3	771.1	624.2	428.8	204.1	125.1	120.4	131.0	156.3	182.3	184.7
27.5°	812.4	746.6	576.6	339.4	132.5	103.0	106.1	113.2	123.6	135.1	136.1
30°	791.8	717.2	525.7	247.5	100.1	92.7	97.0	100.8	105.3	111.8	112.4
32.5°	768.2	689.0	473.5	170.9	88.8	87.3	90.6	92.7	96.1	100.1	100.5
35°	748.4	662.1	419.4	120.8	84.0	83.2	85.5	86.4	89.6	94.0	94.4
37.5°	737.2	640.3	363.8	97.5	80.8	79.6	81.0	81.0	85.5	92.1	93.0
40°	737.9	628.1	307.9	88.1	78.1	76.5	76.7	76.7	82.7	89.8	90.3
42.5°	758.8	631.3	258.4	84.3	75.9	74.2	73.3	73.9	78.8	83.5	83.8
45°	807.9	653.0	212.0	82.1	73.9	73.3	71.1	71.0	72.8	75.0	75.0
47.5°	888.5	695.7	180.5	80.6	72.1	71.9	69.5	66.9	66.7	67.5	67.5
50°	1019.5	769.4	159.4	78.8	71.0	69.5	66.5	62.8	61.4	62.0	62.0
52.5°	1215.9	900.8	151.4	76.5	68.5	66.0	62.8	58.9	57.7	57.9	57.9
55°	1473.5	1102.5	150.2	73.9	65.8	61.7	59.1	56.2	54.8	55.2	55.2
57.5°	1788.2	1381.6	170.7	69.6	62.2	57.6	56.0	54.1	53.1	53.7	53.5
60°	2170.9	1746.8	253.2	65.2	58.5	53.7	53.7	52.2	51.4	52.0	51.8
62.5°	2611.8	2166.3	355.9	62.0	54.6	50.6	51.4	50.6	49.8	50.3	50.0
65°	3002.7	2439.6	333.3	59.4	50.8	47.7	49.0	48.7	48.2	48.5	48.3
67.5°	3013.9	2338.3	187.2	56.9	47.2	44.9	46.8	46.7	46.2	46.7	46.4
70°	2689.8	1974.6	105.6	51.8	43.3	41.4	44.1	43.9	43.6	44.4	44.1
72.5°	2155.0	1432.8	77.1	45.7	39.6	37.8	40.9	40.7	40.7	41.8	41.2
75°	1240.1	737.3	61.6	39.2	35.5	34.1	36.8	37.0	37.3	38.9	37.8
77.5°	353.6	229.8	50.3	33.3	30.5	29.9	32.6	33.0	33.3	35.0	33.4
80°	131.4	105.9	41.4	27.9	24.9	25.1	27.7	28.2	28.4	30.1	28.2
82.5°	83.8	69.8	33.6	21.6	19.5	19.3	22.4	23.2	23.2	23.4	22.3
85°	48.9	41.8	25.3	15.6	13.7	13.2	16.7	18.0	17.5	17.1	16.3
87.5°	32.8	28.7	15.6	8.6	7.4	7.1	9.9	10.7	10.4	9.9	9.2
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)