

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: P450584

Luminaire Tested: **GALN-SA1B-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

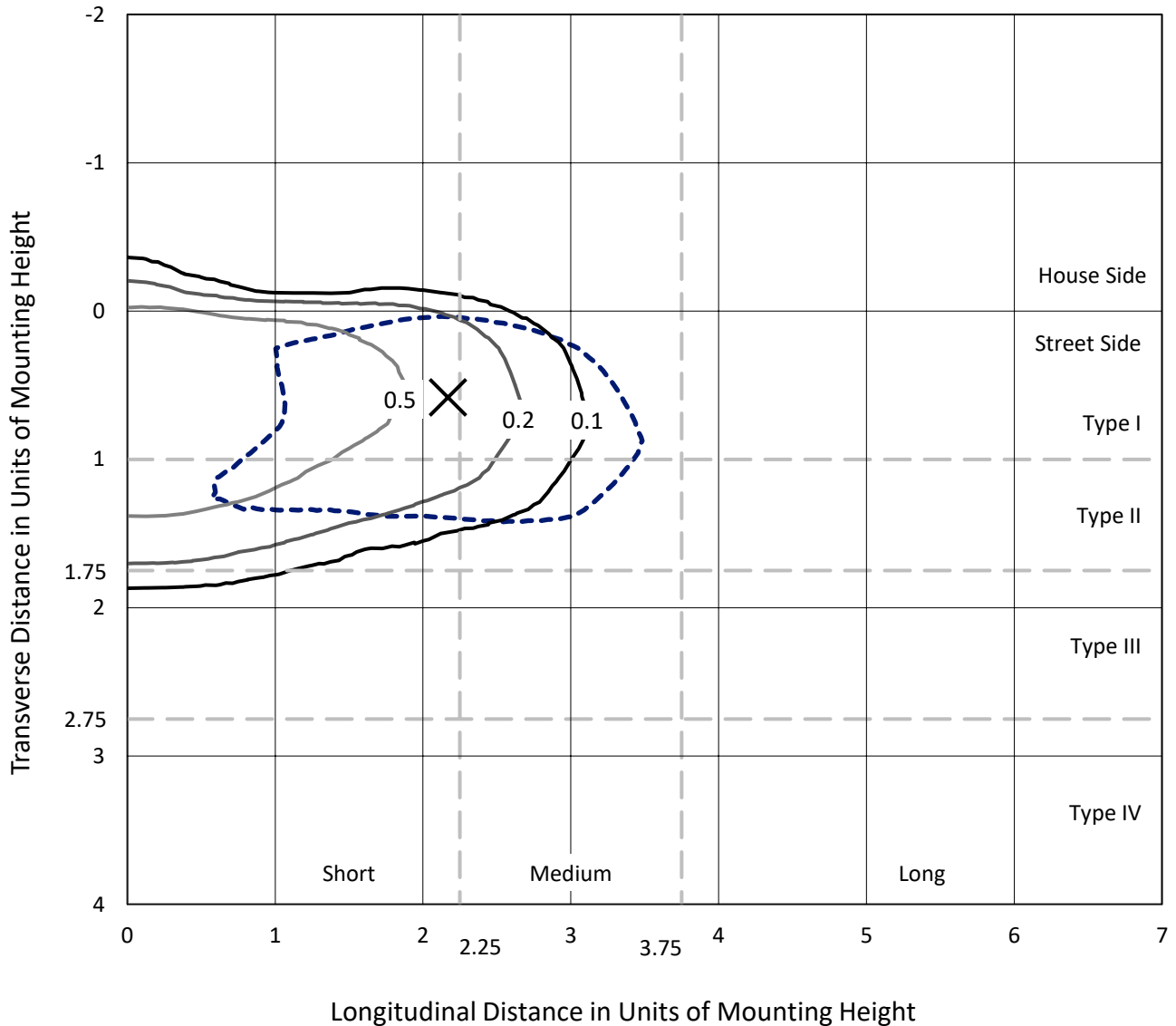
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

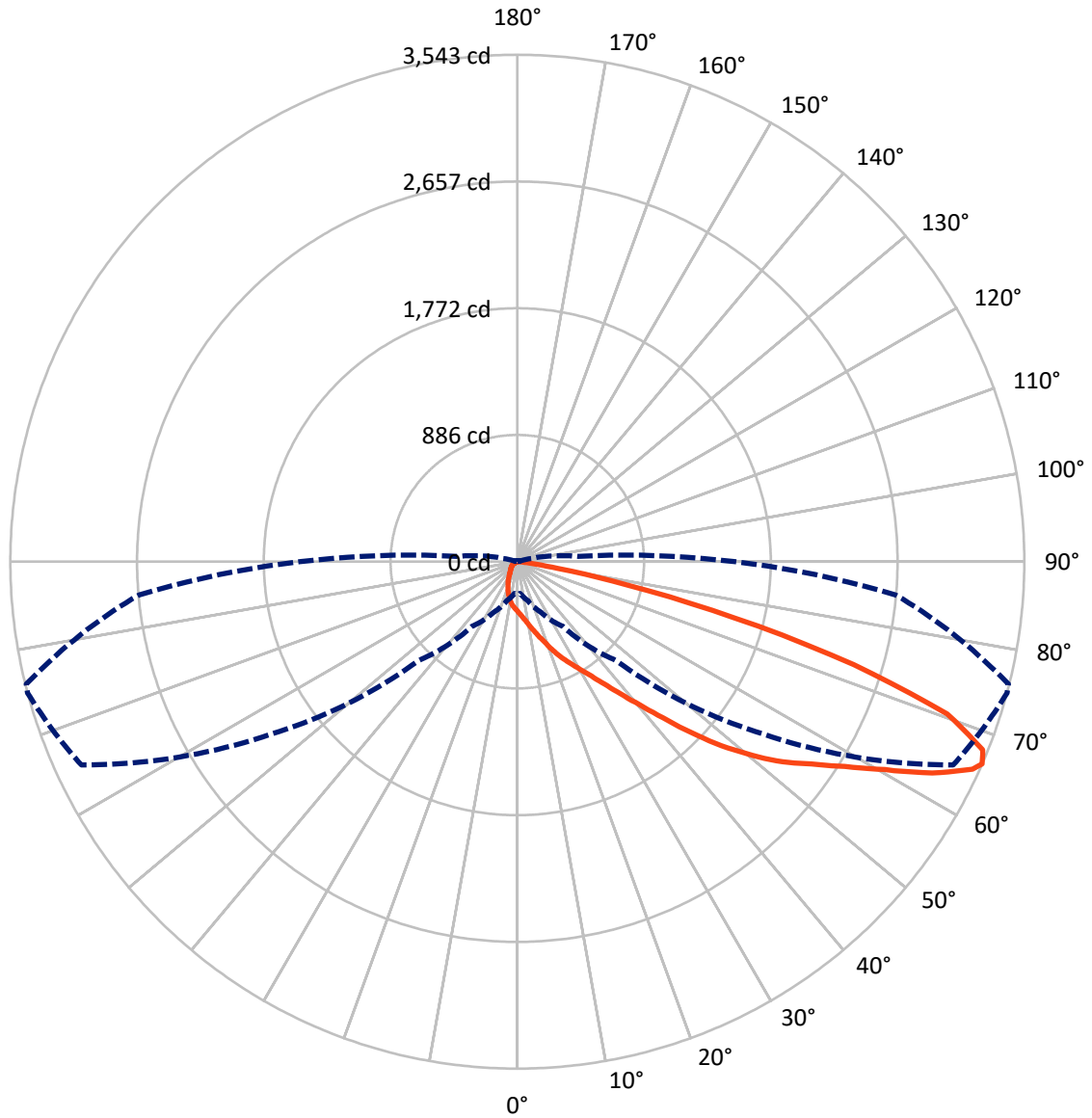
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.3	0.0	195.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2968.7	0.0	2968.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	3164.0	0.0	3164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	1.1
10°-20°	98.2	3.1
20°-30°	169.6	5.4
30°-40°	305.9	9.7
40°-50°	552.7	17.5
50°-60°	861.6	27.2
60°-70°	818.5	25.9
70°-80°	306.8	9.7
80°-90°	17.3	0.5
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°	3164.0	100.0
0°-180°	3164.0	100.0

Coefficient of Utilization



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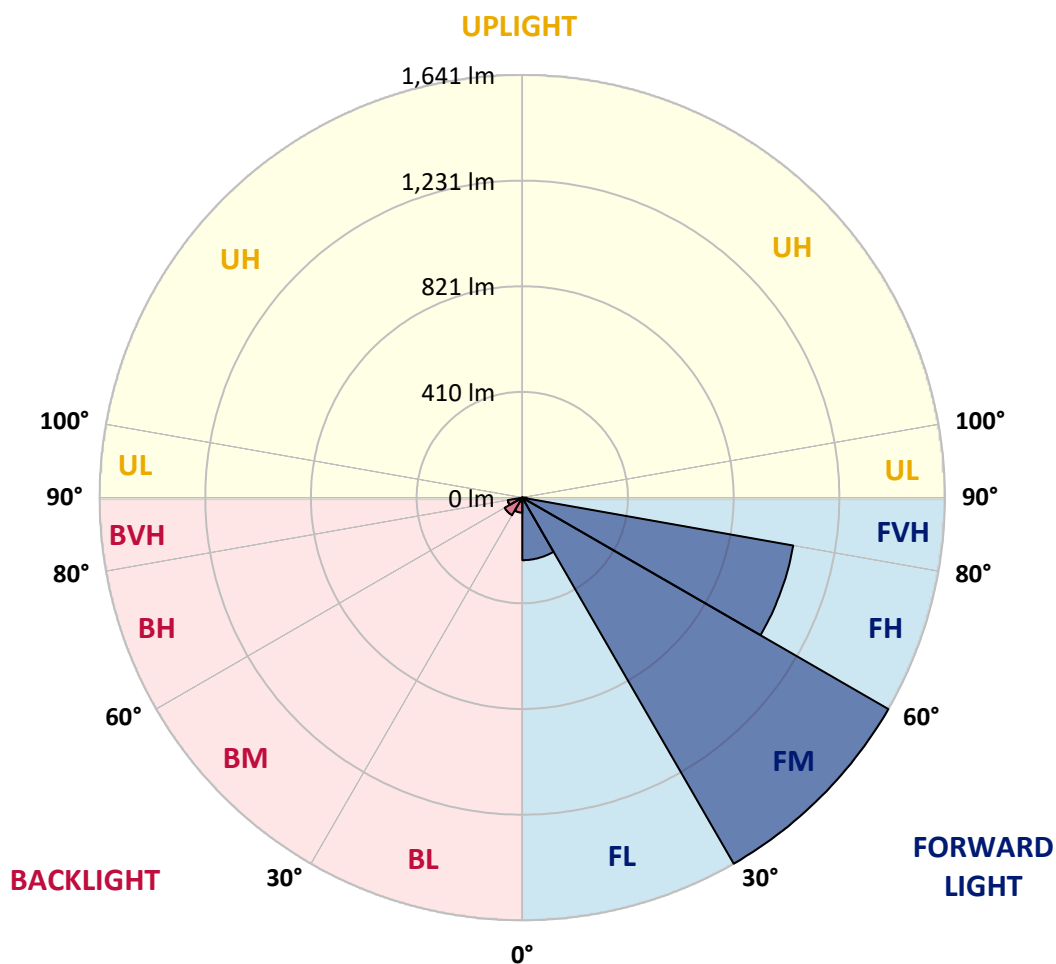
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.9	7.7			
FM (30°-60°)	1641.2	51.9			
FH (60°-80°)	1068.2	33.8			G1/1800
FVH (80°-90°)	16.4	0.5			G1/100
BL (0°-30°)	58.3	1.8	B0/110		
BM (30°-60°)	79.1	2.5	B0/220		
BH (60°-80°)	57.0	1.8	B0/110		G0/110
BVH (80°-90°)	0.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
2.5°	413.4	408.2	409.9	407.5	402.2	394.2	387.2	377.1	367.1	365.4	354.2
5°	467.9	466.5	464.6	457.8	454.1	441.9	427.4	410.1	389.3	385.6	365.2
7.5°	505.1	504.4	505.3	501.8	498.6	487.6	472.1	448.5	416.2	414.1	380.2
10°	517.3	519.1	522.6	528.3	533.4	529.9	518.2	488.7	451.1	445.0	397.3
12.5°	510.2	512.4	520.8	535.7	552.4	562.0	557.3	535.7	488.0	483.1	416.4
15°	492.2	494.8	506.7	529.9	559.6	586.8	598.4	583.0	531.1	523.1	439.6
17.5°	465.6	469.3	486.4	517.0	557.7	604.5	637.5	632.4	576.9	569.4	464.9
20°	445.4	448.3	462.8	497.8	549.8	614.4	674.7	689.2	633.5	620.7	494.6
22.5°	458.8	459.7	464.6	485.7	535.5	616.9	707.5	748.4	693.7	682.2	525.5
25°	524.1	514.7	509.8	505.1	532.5	614.6	737.2	810.2	753.6	741.4	556.1
27.5°	627.0	622.8	598.0	564.8	558.4	617.6	756.8	868.7	809.9	796.8	586.0
30°	739.1	731.8	716.6	667.9	619.0	639.2	771.1	925.5	876.6	859.3	613.4
32.5°	842.0	846.7	824.0	773.9	717.3	685.0	789.6	987.5	953.1	931.6	645.2
35°	962.0	971.4	936.5	888.5	822.3	767.8	825.6	1057.5	1050.2	1023.1	694.4
37.5°	1083.9	1089.5	1068.2	1000.8	941.2	873.1	893.5	1143.8	1169.8	1146.6	753.1
40°	1186.4	1194.1	1178.4	1118.5	1054.9	995.0	992.0	1237.8	1312.0	1288.1	840.6
42.5°	1264.7	1270.6	1271.1	1228.7	1171.4	1144.3	1117.6	1357.9	1490.3	1462.7	942.1
45°	1363.7	1372.1	1367.2	1338.4	1295.6	1290.7	1276.9	1502.9	1703.6	1668.8	1073.8
47.5°	1516.7	1522.3	1510.2	1476.2	1432.7	1440.4	1432.3	1665.5	1921.2	1891.3	1210.2
50°	1622.9	1632.3	1649.6	1663.2	1631.6	1603.0	1578.7	1817.3	2127.8	2100.9	1349.7
52.5°	1621.8	1637.2	1691.9	1760.3	1829.3	1820.6	1750.7	1985.1	2325.0	2291.8	1480.7
55°	1512.5	1542.4	1622.9	1744.1	1935.2	2030.5	1998.7	2179.3	2495.3	2472.9	1632.5
57.5°	1287.0	1305.2	1417.0	1586.4	1876.1	2129.2	2285.9	2442.5	2699.6	2689.0	1868.3
60°	865.6	873.8	1017.7	1227.1	1597.2	2030.7	2496.5	2760.9	2951.1	2945.9	2143.7
62.5°	496.0	499.5	603.8	780.5	1136.5	1720.9	2514.3	3153.7	3252.6	3255.4	2462.3
65°	266.9	268.8	353.0	458.1	691.6	1226.6	2260.9	3368.9	3496.4	3501.8	2659.8
66°	230.4	221.6	281.0	390.5	550.3	976.3	2100.7	3361.2	3543.2	3537.4	2652.8
67.5°	175.2	183.2	224.4	300.2	407.8	694.1	1734.3	3211.7	3507.6	3489.4	2544.9
70°	125.4	128.7	159.8	214.1	277.7	380.9	1108.2	2667.5	3188.1	3163.5	2217.2
72.5°	80.9	84.5	113.2	154.9	200.7	208.0	620.4	1927.3	2457.9	2454.4	1669.7
75°	57.8	61.1	74.9	110.9	150.9	128.7	298.8	1298.9	1562.6	1552.0	1032.9
77.5°	41.9	43.5	50.1	72.5	107.9	92.2	138.5	693.7	777.9	814.6	456.4
80°	24.1	25.5	34.9	44.2	73.0	62.9	66.2	278.4	287.1	273.3	142.7
82.5°	11.9	13.6	20.8	30.2	45.6	42.3	30.4	83.8	88.4	86.1	36.0
85°	2.8	3.5	11.7	19.9	22.2	19.0	14.7	24.6	30.4	29.7	13.8
87.5°	0.2	0.5	4.2	3.5	3.7	6.3	5.1	6.3	9.8	9.1	4.9
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°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
2.5°	349.1	344.6	331.7	319.1	308.6	297.6	287.5	281.7	279.3	276.8	277.9
5°	354.0	343.2	317.2	294.8	272.8	254.1	239.1	229.5	224.8	224.1	223.0
7.5°	360.5	342.0	301.8	266.7	237.9	217.1	200.0	186.2	182.0	178.3	175.2
10°	368.5	339.9	282.6	237.2	206.6	180.4	157.9	141.5	133.1	130.8	132.4
12.5°	376.9	336.0	262.5	210.1	174.8	141.3	120.5	112.3	110.0	109.0	109.3
15°	385.3	331.0	241.4	183.9	139.2	112.8	103.2	101.1	100.1	99.7	99.2
17.5°	393.0	323.1	217.8	158.4	112.8	96.4	92.9	91.0	89.1	88.4	87.3
20°	402.2	314.0	196.5	129.8	95.5	87.3	83.1	79.5	76.7	74.9	74.6
22.5°	410.8	302.3	174.3	107.6	87.0	78.4	71.6	67.8	64.6	62.2	62.9
25°	415.5	288.0	154.4	93.8	79.3	69.5	62.0	57.3	53.8	52.6	52.4
27.5°	415.5	270.4	135.0	85.9	72.3	61.5	53.8	49.4	47.0	45.4	45.6
30°	412.2	251.0	117.0	79.8	66.2	54.5	47.3	43.3	41.4	40.2	40.0
32.5°	409.6	232.5	101.5	73.9	59.9	48.4	42.1	39.1	37.2	36.0	36.0
35°	413.6	216.6	89.6	68.1	54.0	43.7	38.1	35.3	33.5	32.5	32.3
37.5°	424.2	202.1	80.5	61.8	48.7	39.8	35.3	32.1	30.2	29.0	28.5
40°	450.1	193.9	73.7	55.9	43.5	36.5	32.1	29.0	26.7	25.5	25.3
42.5°	491.8	194.2	67.1	50.5	39.5	33.7	29.2	25.7	23.2	22.0	21.8
45°	554.5	203.1	62.0	45.4	36.0	30.6	26.2	22.5	20.1	19.0	19.0
47.5°	629.6	220.4	57.6	40.9	32.8	27.8	23.2	19.4	17.1	16.1	16.1
50°	711.0	242.8	53.1	36.3	29.9	24.8	19.9	16.8	15.0	14.3	14.3
52.5°	794.0	270.0	48.7	32.5	26.9	21.5	17.1	15.0	13.3	12.9	12.6
55°	903.1	304.6	44.0	28.5	23.6	18.5	15.2	13.1	11.2	10.5	10.3
57.5°	1070.8	356.8	38.8	25.0	19.4	15.4	13.1	11.0	8.9	7.7	7.5
60°	1273.2	420.4	33.5	22.0	15.7	12.6	10.5	8.4	6.6	5.1	4.9
62.5°	1462.7	460.9	28.3	18.5	12.4	9.6	7.5	6.3	4.7	3.3	3.0
65°	1546.4	447.3	23.4	15.0	9.8	6.8	4.9	4.4	2.8	1.4	1.2
66°	1518.6	427.2	21.5	13.6	8.9	5.8	4.2	3.7	2.1	0.7	0.7
67.5°	1436.5	379.7	18.7	11.7	7.7	4.7	3.3	2.8	1.2	0.2	0.0
70°	1230.8	307.2	14.7	8.7	5.6	3.3	1.9	1.4	0.7	0.0	0.0
72.5°	945.4	228.8	11.7	6.6	4.0	1.9	0.9	0.5	0.7	0.0	0.0
75°	579.3	130.8	9.1	4.9	2.6	1.2	0.7	0.0	0.7	0.2	0.0
77.5°	257.1	58.7	6.1	3.3	1.9	0.9	0.5	0.0	0.5	0.2	0.0
80°	65.0	19.2	3.5	2.3	1.4	0.7	0.2	0.0	0.5	0.5	0.2
82.5°	17.8	7.0	2.6	1.9	1.2	0.7	0.2	0.0	0.5	0.5	0.5
85°	7.0	3.3	2.3	1.9	1.4	0.7	0.2	0.0	0.5	0.5	0.5
87.5°	3.3	2.3	2.3	2.1	1.6	0.7	0.2	0.0	0.5	0.2	0.5
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)