

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: P450586

Luminaire Tested: **GALN-SA1B-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3389 lumens
Efficiency: N/A
Efficacy: 77.0 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

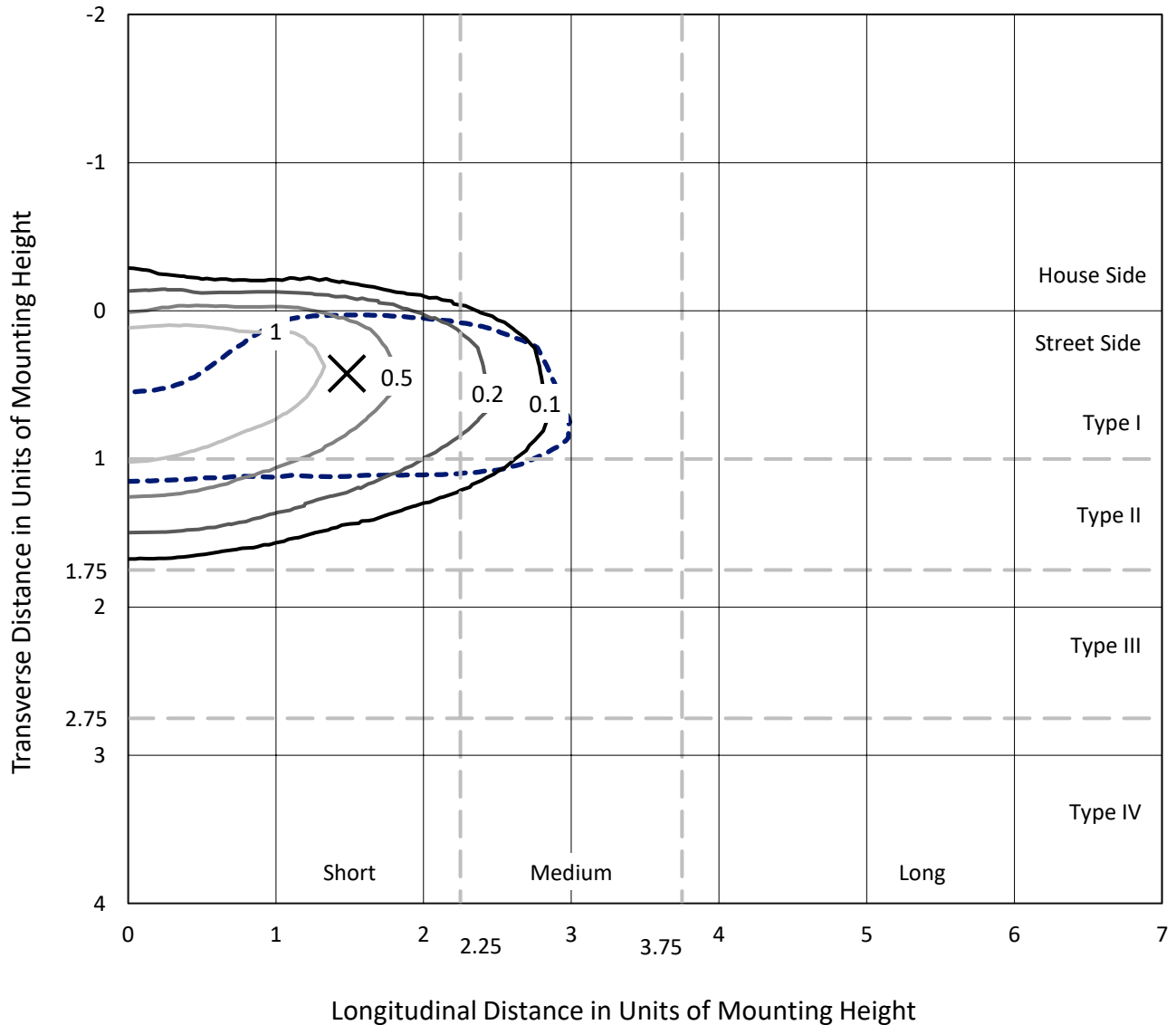
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

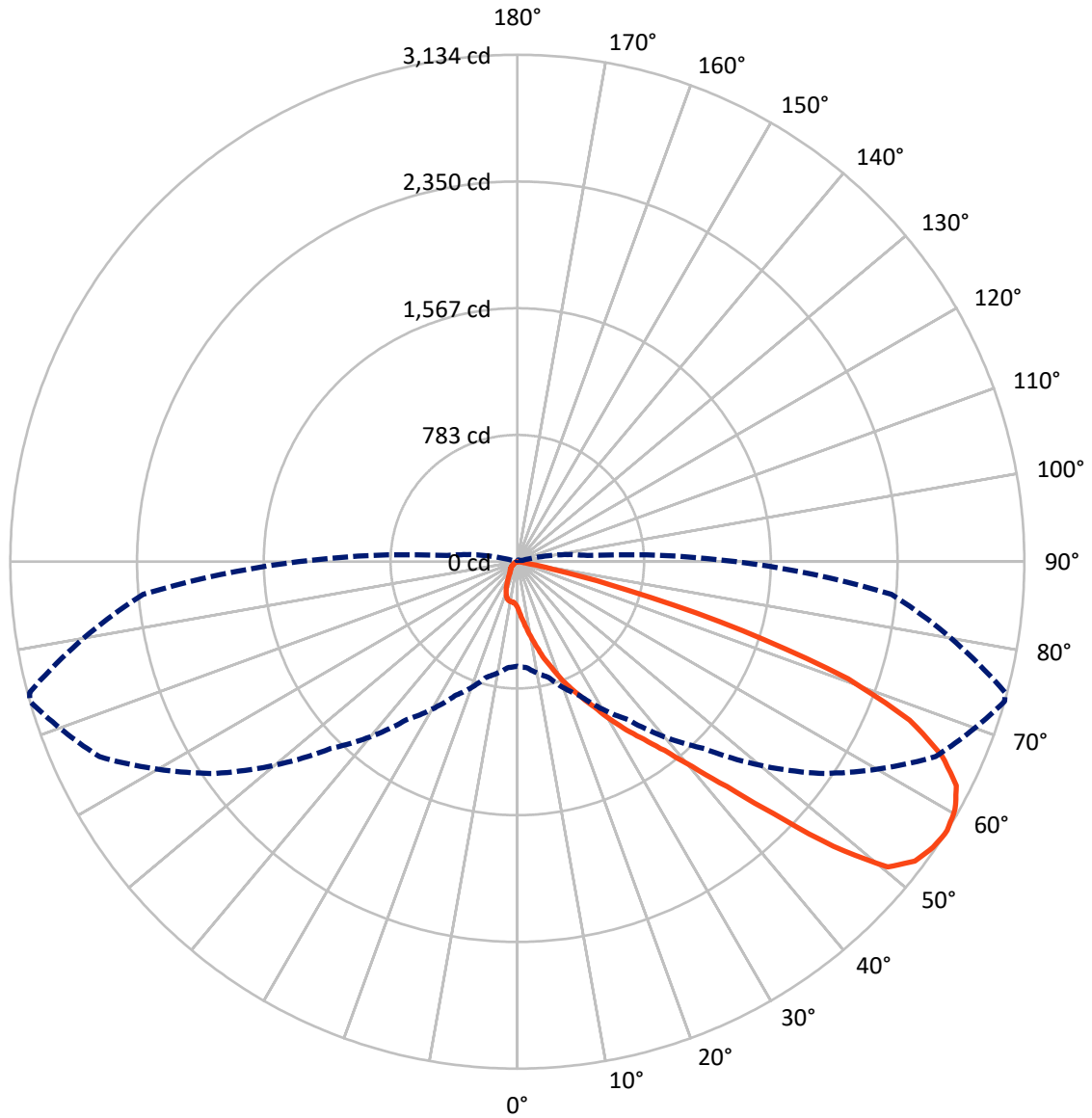
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.5	0.0	195.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3193.5	0.0	3193.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	3389.0	0.0	3389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.0
10°-20°	135.0	4.0
20°-30°	288.9	8.5
30°-40°	531.1	15.7
40°-50°	814.1	24.0
50°-60°	861.2	25.4
60°-70°	562.4	16.6
70°-80°	153.7	4.5
80°-90°	8.3	0.2
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°	3389.0	100.0
0°-180°	3389.0	100.0

Coefficient of Utilization



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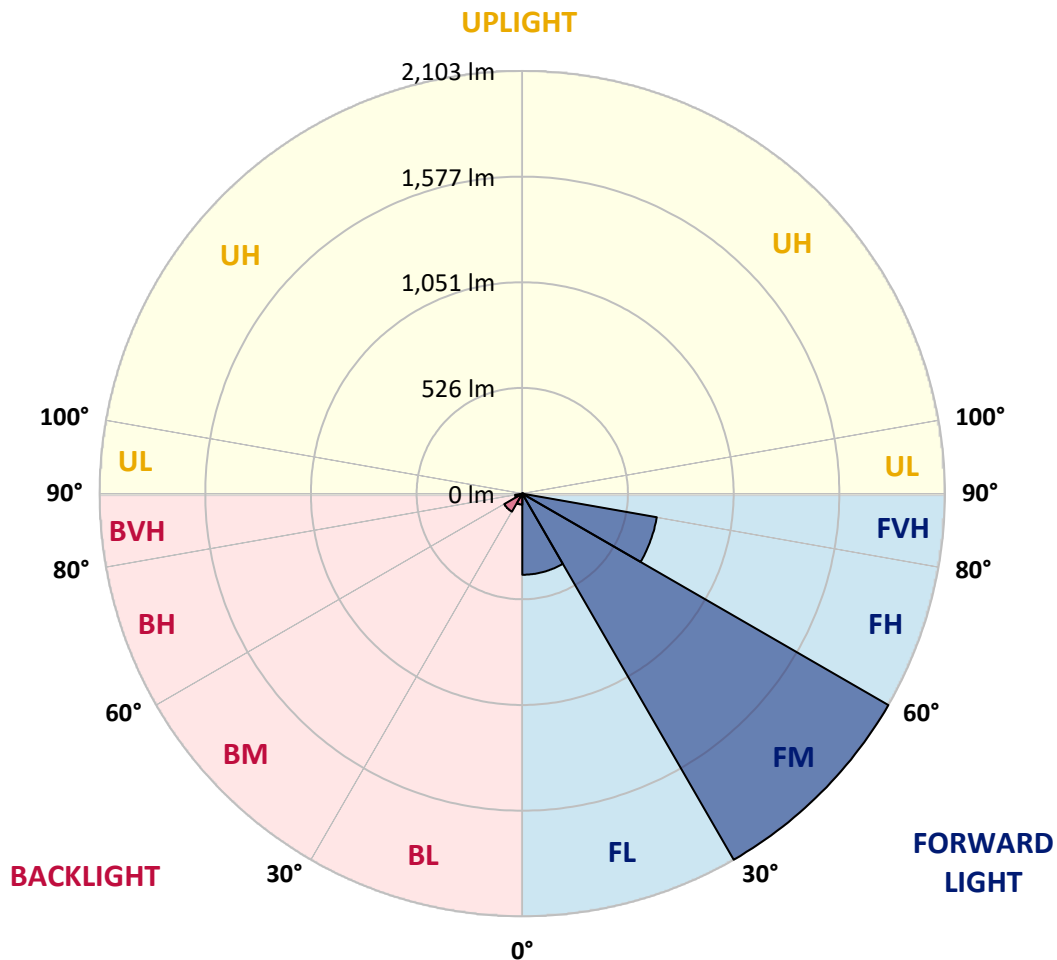
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.6	11.9			
FM (30°-60°)	2102.9	62.1			
FH (60°-80°)	679.4	20.0			G1/1800
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	54.6	1.6	B0/110		
BM (30°-60°)	103.5	3.1	B0/220		
BH (60°-80°)	36.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	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°	74°	75°	85°
0°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	415.3	411.6	404.1	401.5	390.5	373.4	358.5	338.3	322.4	320.8	301.6
5°	556.2	547.8	544.3	527.4	501.0	476.2	433.6	401.3	364.1	361.3	322.7
7.5°	691.9	680.2	676.7	660.8	629.9	590.8	535.6	476.9	417.9	412.5	351.0
10°	790.2	791.8	785.5	775.0	749.9	710.1	642.1	561.8	477.8	471.0	382.8
12.5°	860.6	860.4	861.5	861.3	848.0	817.8	746.2	653.8	543.8	530.4	419.3
15°	906.5	907.2	910.7	922.8	924.2	905.5	845.9	741.7	620.3	603.7	458.8
17.5°	952.8	957.7	963.3	974.8	985.1	977.6	935.5	833.5	689.6	677.2	501.2
20°	1029.3	1036.1	1032.8	1039.8	1045.2	1045.9	1013.4	918.2	773.6	752.7	549.6
22.5°	1151.7	1151.4	1143.0	1130.4	1119.9	1119.4	1089.9	1005.2	849.8	829.7	598.3
25°	1306.3	1307.0	1290.7	1254.6	1228.4	1196.4	1162.4	1081.5	931.5	906.7	649.5
27.5°	1483.7	1479.3	1454.5	1404.8	1352.9	1298.2	1249.2	1170.2	1018.1	997.5	708.3
30°	1643.0	1641.4	1612.4	1551.8	1483.5	1428.5	1357.6	1281.3	1130.1	1104.9	774.0
32.5°	1791.4	1793.7	1753.5	1690.8	1624.8	1561.4	1486.5	1387.5	1240.1	1204.3	845.6
35°	1907.2	1909.6	1867.9	1815.7	1747.9	1695.2	1623.9	1500.8	1348.7	1318.5	928.0
37.5°	1969.0	1972.0	1947.9	1908.6	1866.3	1839.8	1773.4	1646.6	1480.7	1462.4	1025.3
40°	1980.7	1984.2	1973.7	1963.1	1960.8	1979.8	1960.3	1818.3	1663.6	1635.1	1170.4
42.5°	1945.6	1950.3	1954.9	1978.3	2026.1	2095.6	2163.2	2051.4	1899.3	1860.9	1347.8
45°	1853.4	1852.9	1871.4	1932.0	2038.9	2187.3	2375.2	2343.1	2220.3	2174.7	1598.4
47.5°	1695.7	1693.4	1733.4	1819.7	1986.3	2204.1	2548.1	2697.4	2630.0	2587.9	1867.7
50°	1455.4	1466.9	1529.8	1650.3	1855.5	2153.1	2601.5	2929.7	2966.2	2921.5	2085.3
52.5°	1173.9	1173.4	1272.2	1435.7	1661.8	2040.8	2564.2	2971.8	3075.5	3041.3	2192.4
55°	868.8	874.9	977.6	1142.6	1410.2	1835.8	2442.8	2928.6	3117.2	3093.1	2263.1
57°	646.3	657.0	739.4	913.9	1191.2	1633.0	2281.1	2851.1	3133.5	3120.4	2321.8
57.5°	603.2	603.7	683.9	842.6	1127.1	1555.1	2234.8	2818.8	3133.1	3125.8	2331.4
60°	371.3	383.0	438.5	569.5	825.0	1213.7	1924.3	2633.3	3108.7	3119.3	2372.4
62.5°	222.3	227.2	263.2	343.3	531.8	885.9	1574.7	2395.8	3045.3	3077.4	2369.6
65°	143.0	144.1	160.5	207.8	332.5	598.8	1213.4	2082.0	2881.3	2940.3	2276.9
67.5°	110.4	112.3	118.9	136.4	192.8	373.0	858.3	1747.2	2616.0	2692.0	2052.3
70°	98.0	99.0	101.3	106.9	127.5	210.6	534.0	1364.8	2169.3	2190.8	1606.1
72.5°	80.0	82.6	89.9	91.7	101.1	131.5	297.2	916.1	1457.5	1462.9	898.5
75°	62.0	62.5	73.2	78.6	85.2	90.6	132.7	461.9	700.1	662.6	346.3
77.5°	46.3	48.4	53.3	60.1	69.5	64.8	59.4	174.1	217.4	213.4	100.6
80°	29.7	30.9	37.2	45.2	54.1	42.4	33.5	51.0	47.7	49.1	24.1
82.5°	15.0	15.2	23.9	36.7	34.4	21.3	21.1	20.8	17.8	17.5	11.2
85°	1.6	3.5	15.4	21.1	15.4	7.0	9.8	9.6	9.4	9.6	6.6
87.5°	0.2	0.2	2.6	3.0	2.1	2.3	2.8	3.0	3.7	3.5	2.8
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°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8	283.8
2.5°	292.2	282.9	265.6	249.0	236.6	228.6	218.3	214.6	209.2	208.5	205.9
5°	304.9	287.1	256.9	233.0	213.9	199.4	186.7	176.2	167.8	165.9	166.8
7.5°	322.9	296.5	254.3	221.8	195.1	170.3	150.2	137.8	128.9	125.7	126.1
10°	343.3	308.9	253.9	209.9	169.2	138.8	116.8	105.8	100.6	98.7	96.6
12.5°	367.4	323.1	252.7	191.4	140.6	110.7	95.0	88.4	83.5	82.1	82.1
15°	394.5	338.3	247.1	168.5	114.2	91.5	81.0	75.8	74.2	72.8	72.8
17.5°	422.8	353.3	235.4	140.2	94.8	78.4	71.8	68.8	66.5	64.8	64.8
20°	455.1	368.1	216.7	115.1	80.0	70.0	64.8	61.3	59.4	58.0	57.6
22.5°	485.8	380.0	192.8	94.5	69.7	62.9	58.3	54.5	52.6	51.9	51.9
25°	517.6	387.2	164.0	78.2	63.6	57.1	51.9	48.9	47.3	46.8	46.6
27.5°	548.5	391.5	138.8	68.3	58.0	51.7	46.8	44.5	42.8	42.4	42.6
30°	585.9	392.2	114.2	61.3	53.1	46.6	42.1	40.0	39.1	38.6	38.4
32.5°	623.8	391.2	95.9	57.1	48.4	42.1	38.4	36.7	36.0	35.3	35.3
35°	666.4	386.3	81.7	52.9	44.0	38.4	35.1	33.7	32.8	32.1	31.8
37.5°	719.3	383.7	73.5	48.2	40.0	34.9	31.8	30.4	29.7	28.8	28.5
40°	802.6	395.2	70.9	44.0	36.0	31.6	28.8	27.1	26.2	25.3	25.0
42.5°	906.5	415.3	66.7	39.8	32.5	28.5	25.7	23.9	22.2	21.1	20.6
45°	1041.0	441.8	60.1	35.3	29.5	25.3	22.7	20.4	18.3	17.3	17.1
47.5°	1182.1	467.3	54.3	31.8	26.2	22.5	19.7	17.1	15.2	14.5	14.3
50°	1268.7	472.4	50.5	27.8	22.9	19.4	16.6	14.3	13.1	12.4	12.4
52.5°	1308.2	464.2	45.4	24.3	19.9	17.1	14.3	12.4	11.7	11.2	11.0
55°	1335.8	451.6	38.6	21.1	17.1	14.5	12.6	11.2	10.3	9.8	9.6
57°	1352.0	434.5	33.5	18.5	14.7	12.6	11.2	10.1	9.1	8.2	8.2
57.5°	1352.7	428.0	32.1	18.3	14.0	12.2	11.0	9.8	8.7	7.7	7.5
60°	1331.8	383.0	25.7	15.4	11.2	10.3	9.1	7.7	6.1	5.1	4.9
62.5°	1264.9	325.9	21.3	13.1	9.1	8.0	6.6	5.8	4.2	3.0	3.0
65°	1163.6	264.4	18.3	10.5	7.5	5.8	4.4	4.2	2.6	1.4	1.2
67.5°	1017.1	205.9	15.4	8.7	6.3	4.2	3.0	2.8	1.4	0.5	0.0
70°	775.0	140.4	12.9	7.0	4.7	3.0	2.1	1.6	0.9	0.2	0.0
72.5°	446.7	77.2	10.8	5.4	3.5	2.3	1.6	0.9	0.9	0.0	0.0
75°	159.6	33.2	8.2	4.0	2.8	1.9	1.2	0.5	0.7	0.2	0.0
77.5°	50.8	17.8	5.4	3.0	2.3	1.4	0.9	0.5	0.5	0.2	0.0
80°	15.0	9.4	3.3	2.6	1.6	1.2	0.7	0.2	0.5	0.2	0.0
82.5°	8.2	4.7	2.6	1.9	1.6	0.9	0.7	0.2	0.2	0.2	0.0
85°	4.2	2.8	2.1	1.9	1.6	0.9	0.7	0.2	0.0	0.2	0.2
87.5°	2.3	2.1	2.1	1.9	1.6	1.2	0.7	0.2	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)