

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: P526315

Luminaire Tested: **GALN-SA1B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3093 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

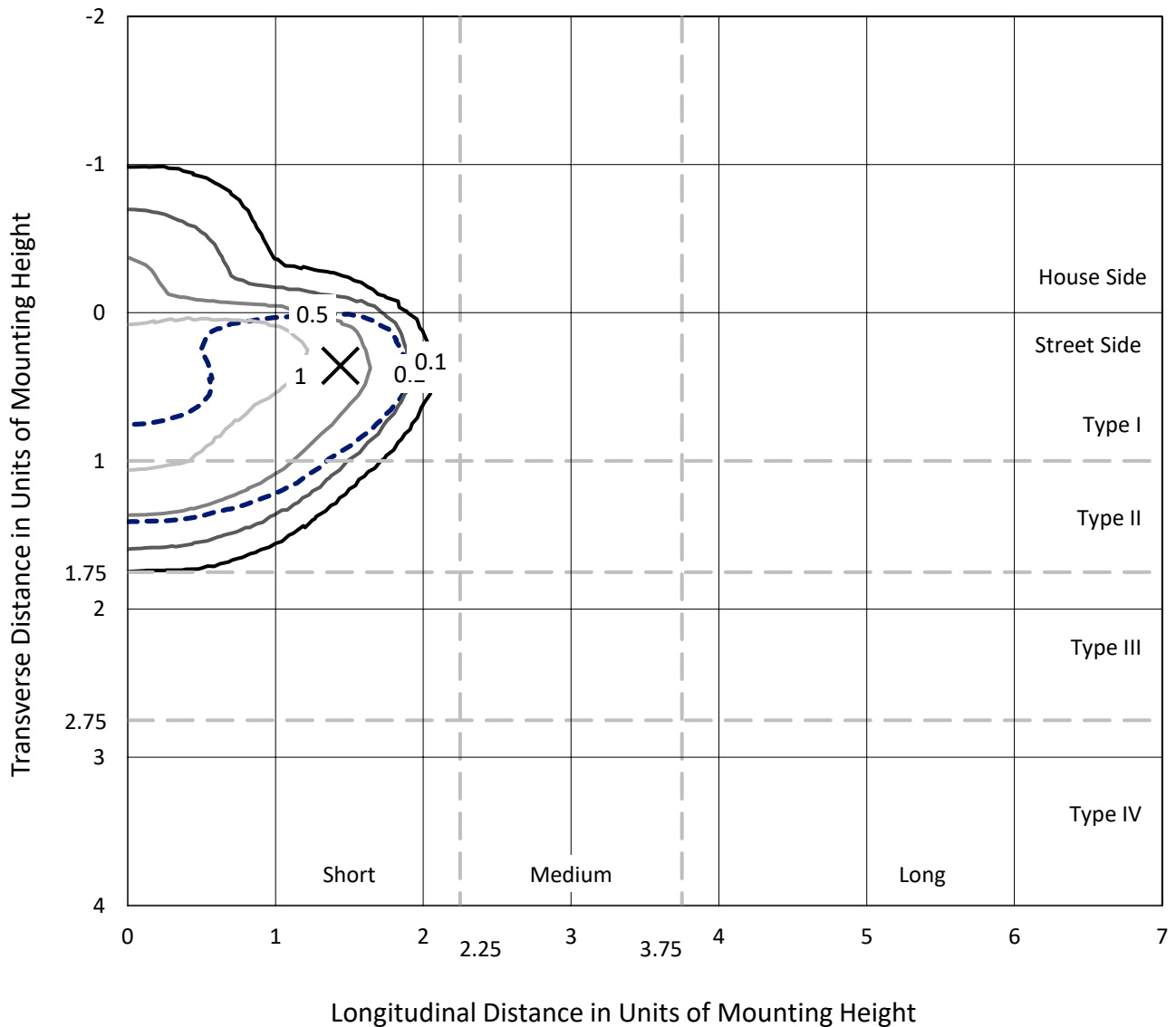
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

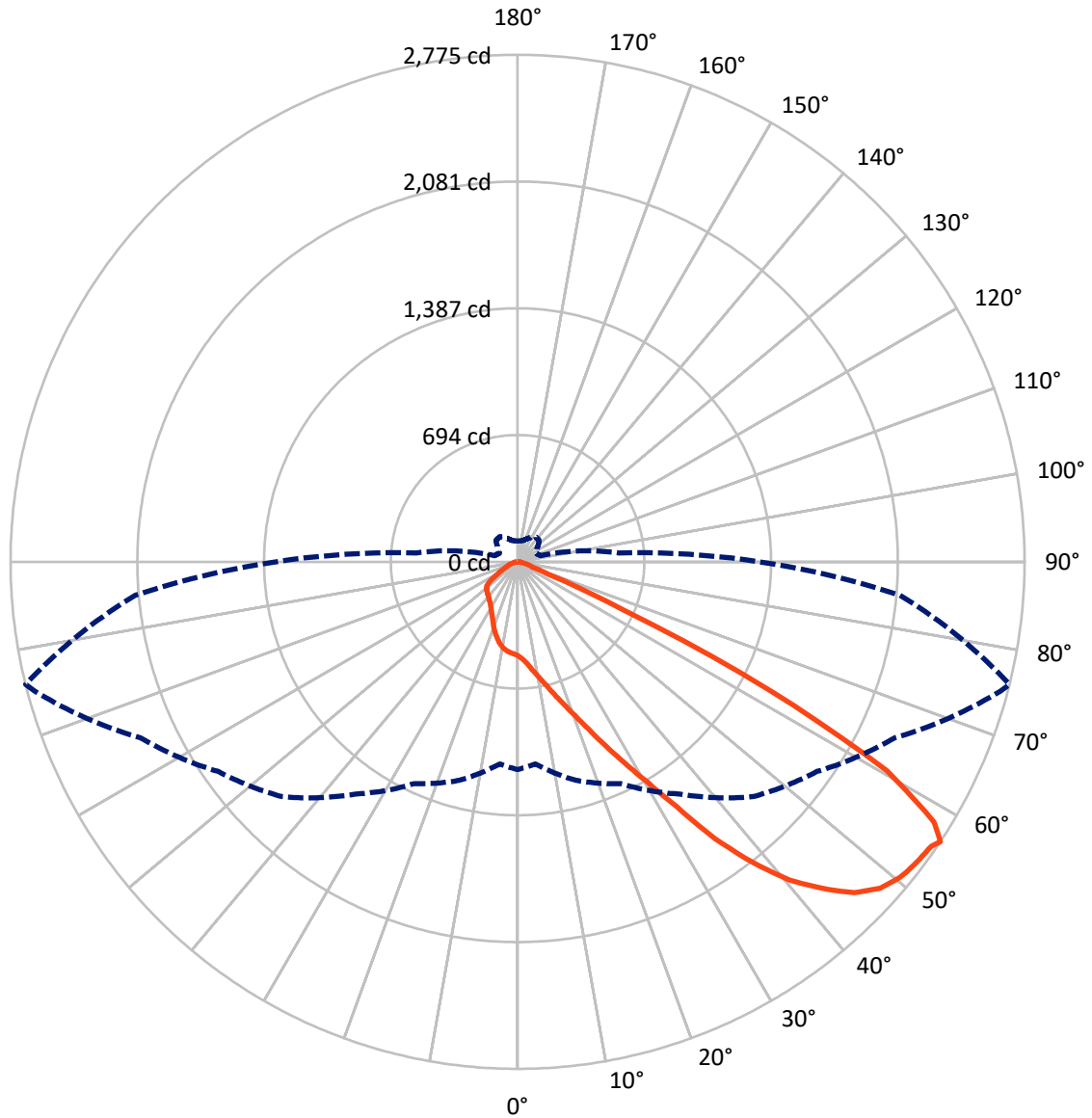
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.9	0.0	485.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2607.1	0.0	2607.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	3093.0	0.0	3093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.7
10°-20°	166.6	5.4
20°-30°	302.1	9.8
30°-40°	521.0	16.8
40°-50°	846.4	27.4
50°-60°	892.1	28.8
60°-70°	272.6	8.8
70°-80°	34.9	1.1
80°-90°	5.3	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°	3093.0	100.0
0°-180°	3093.0	100.0

Coefficient of Utilization

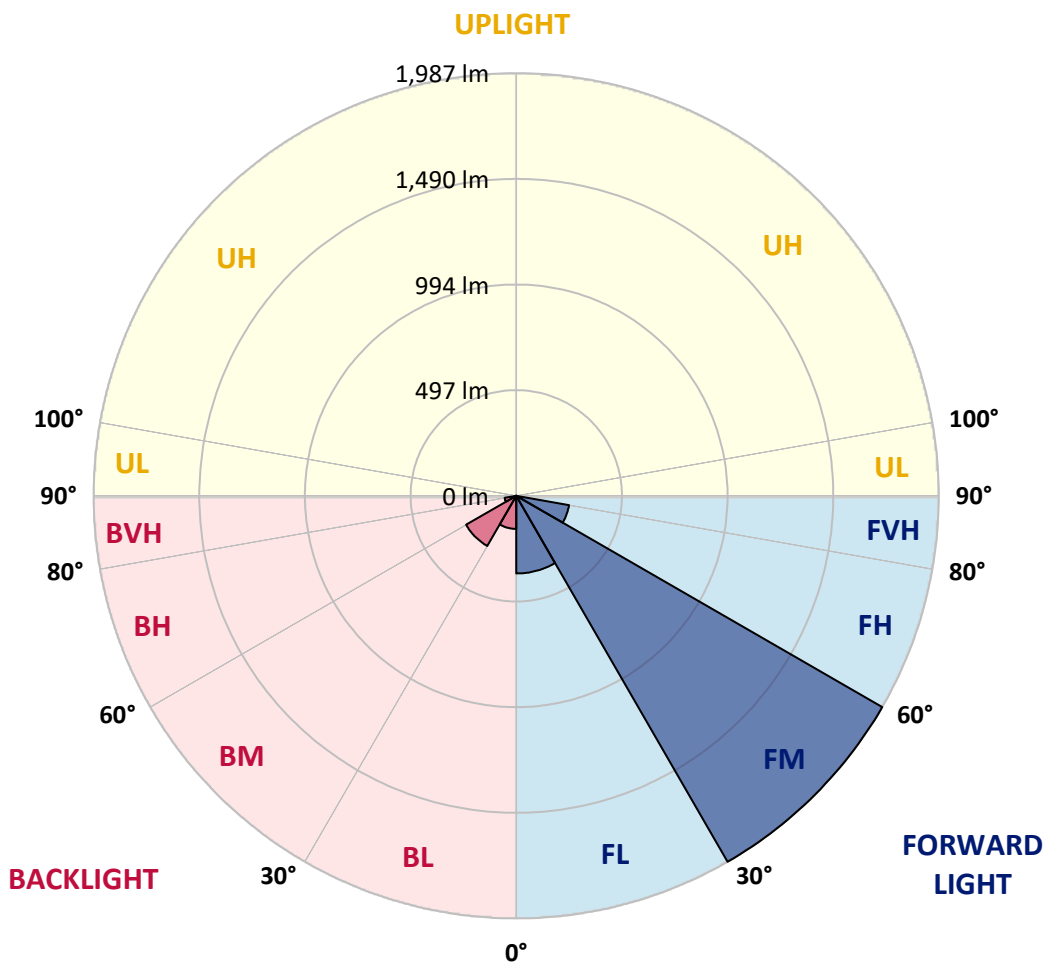


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.2	11.8			
FM (30°-60°)	1987.2	64.2			
FH (60°-80°)	252.1	8.2			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	155.4	5.0	B1/500		
BM (30°-60°)	272.3	8.8	B1/1000		
BH (60°-80°)	55.4	1.8	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8
2.5°	592.9	579.3	579.8	578.7	577.0	570.7	551.9	549.0	536.5	533.1	521.7
5°	664.2	652.2	659.1	648.8	639.1	633.4	602.6	588.4	568.4	561.0	545.1
7.5°	708.7	703.0	700.7	701.3	692.1	677.9	664.2	632.9	606.1	600.4	566.7
10°	730.3	726.9	730.3	728.6	732.6	734.3	710.4	691.6	652.2	642.5	590.1
12.5°	735.5	742.3	745.2	752.6	762.3	778.8	777.1	751.4	699.0	692.7	626.0
15°	748.0	753.7	750.9	762.8	781.1	809.0	823.8	819.9	763.4	752.0	667.6
17.5°	759.4	749.2	758.9	782.8	801.0	843.8	879.7	896.3	833.5	820.4	705.8
20°	774.8	772.0	770.3	782.2	814.7	871.7	943.0	973.2	912.2	898.5	760.6
22.5°	821.6	822.1	821.0	803.3	826.7	891.1	998.3	1073.0	1006.3	994.9	822.7
25°	883.1	875.7	870.0	855.8	852.9	908.8	1054.2	1195.0	1119.2	1111.2	890.0
27.5°	948.1	948.1	931.0	917.9	899.7	952.7	1105.5	1313.6	1255.4	1244.6	948.7
30°	1018.8	1022.8	1020.5	992.6	981.2	1000.6	1158.0	1465.3	1411.7	1398.0	1045.6
32.5°	1123.2	1114.6	1124.3	1100.9	1067.3	1084.4	1240.6	1600.9	1614.6	1595.2	1172.8
35°	1261.1	1256.0	1249.7	1211.5	1171.6	1185.3	1357.5	1768.0	1869.5	1859.8	1301.1
37.5°	1384.9	1382.0	1376.9	1350.7	1304.5	1321.0	1490.3	1941.9	2118.1	2086.1	1482.4
40°	1514.9	1530.3	1513.7	1490.3	1448.2	1484.6	1646.6	2045.1	2327.3	2288.5	1620.9
42.5°	1691.0	1679.1	1686.5	1643.7	1620.9	1660.8	1803.3	2148.3	2489.8	2443.6	1768.0
45°	1878.6	1879.2	1859.2	1845.5	1786.2	1829.6	1899.7	2205.3	2619.2	2583.3	1879.2
47.5°	1998.9	1998.3	2020.0	2041.7	1980.7	1937.9	1965.3	2259.5	2685.9	2669.4	1919.7
50°	1980.1	1985.8	2013.7	2094.7	2126.6	2069.0	2026.8	2243.5	2716.1	2714.4	1954.4
52.5°	1722.4	1741.2	1788.0	1904.8	2065.6	2136.9	2091.3	2273.1	2731.0	2733.8	2006.3
55°	1311.3	1321.6	1410.5	1552.5	1730.4	1974.4	2065.6	2296.5	2742.4	2747.5	2069.0
56°	1137.4	1110.1	1238.3	1339.3	1551.9	1818.7	2000.6	2278.3	2735.5	2774.9	2100.4
57.5°	858.6	840.4	944.1	1070.1	1274.8	1556.5	1798.8	2192.2	2689.3	2688.8	2055.3
60°	522.2	504.0	583.8	657.9	772.5	958.4	1215.5	1745.8	2273.7	2321.6	1664.2
62.5°	310.7	322.1	400.8	445.8	482.9	502.3	628.9	1037.7	1517.1	1551.3	1032.5
65°	207.0	211.0	270.2	344.4	360.9	287.3	256.0	420.2	657.9	636.8	425.9
67.5°	127.7	136.8	181.3	258.8	286.8	209.8	121.4	156.8	181.3	181.3	123.1
70°	77.5	82.1	120.9	176.2	196.7	135.1	88.4	88.4	87.2	85.5	73.5
72.5°	37.1	39.9	61.6	90.7	92.4	71.3	68.4	74.7	73.0	72.4	61.0
75°	16.0	17.1	21.7	28.5	32.5	30.2	41.6	53.6	55.3	53.6	43.9
77.5°	5.1	5.7	8.0	10.3	10.8	13.1	17.7	22.2	25.7	23.9	21.7
80°	0.6	1.1	2.3	5.1	8.0	10.3	13.1	14.8	16.5	16.5	15.4
82.5°	0.6	0.6	2.3	4.6	7.4	9.7	12.5	14.3	16.5	17.1	16.0
85°	0.0	0.6	1.7	4.0	6.3	6.3	5.7	5.7	4.0	4.0	4.0
87.5°	0.0	0.0	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1
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°	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8	514.8
2.5°	519.4	518.3	502.9	493.2	488.0	477.8	471.5	466.9	463.5	459.5	460.1
5°	526.2	522.2	496.6	478.9	457.8	446.4	436.7	428.7	423.6	422.5	420.2
7.5°	545.6	524.5	485.8	453.8	427.0	415.6	407.1	401.9	404.2	399.1	403.1
10°	560.4	529.1	472.6	426.5	399.7	391.1	386.6	390.5	396.2	394.0	391.1
12.5°	578.7	533.6	451.5	400.2	375.2	368.9	376.9	384.3	395.7	400.2	394.5
15°	599.2	538.8	424.8	370.0	354.1	359.2	372.9	386.0	397.4	403.1	406.5
17.5°	624.3	537.1	398.5	346.1	334.1	348.9	365.5	377.4	394.5	403.1	400.8
20°	647.7	531.4	369.4	322.1	322.7	336.4	350.1	369.4	378.6	390.0	386.0
22.5°	669.9	521.1	339.2	305.6	305.6	326.7	333.5	346.1	354.1	359.8	359.2
25°	701.3	501.7	314.1	289.6	296.5	310.2	315.9	319.8	316.4	321.0	321.6
27.5°	723.5	481.8	293.6	275.4	287.9	298.2	296.5	294.2	286.2	279.9	283.9
30°	747.5	458.4	275.9	265.7	272.5	281.6	274.8	268.0	255.4	245.2	245.7
32.5°	781.7	447.6	260.6	254.3	263.4	264.5	257.1	246.9	234.3	224.6	224.1
35°	845.5	440.7	247.4	246.9	248.6	249.2	241.7	229.2	224.1	216.1	218.9
37.5°	909.4	437.3	238.3	236.0	235.5	236.0	227.5	215.5	225.2	224.6	225.8
40°	990.9	452.7	225.2	222.4	222.9	222.9	212.1	208.7	225.8	227.5	228.1
42.5°	1073.6	472.1	216.7	207.5	209.8	209.8	204.1	200.1	212.1	200.7	199.0
45°	1145.4	500.6	207.5	192.7	198.4	201.3	199.5	192.7	185.3	165.9	165.9
47.5°	1168.8	525.7	196.7	178.5	183.0	195.6	190.4	176.2	163.1	147.1	146.0
50°	1209.8	553.0	188.1	161.9	171.6	187.0	181.9	167.6	152.8	141.4	142.0
52.5°	1252.0	584.4	172.2	142.5	154.5	180.2	180.2	164.2	141.4	133.4	132.3
55°	1315.3	583.3	143.7	116.9	138.0	169.9	172.8	147.1	126.6	120.3	120.3
56°	1324.4	557.0	129.4	109.5	130.6	167.1	167.6	142.5	120.9	114.0	114.0
57.5°	1256.0	502.9	113.5	100.3	121.4	161.9	162.5	138.5	116.3	106.6	105.5
60°	966.4	340.4	94.6	89.5	110.0	146.0	148.8	126.0	102.1	94.6	94.1
62.5°	545.6	188.7	83.2	81.0	94.6	124.3	132.8	110.0	86.7	82.7	83.8
65°	249.2	103.8	70.1	65.6	76.4	95.8	107.2	90.7	71.3	66.7	66.7
67.5°	91.2	70.7	59.9	51.9	53.6	62.1	69.6	58.7	47.3	40.5	42.2
70°	65.0	59.3	52.5	45.0	41.6	40.5	39.9	33.1	23.4	18.2	19.4
72.5°	52.5	49.0	43.9	38.2	32.5	27.4	23.4	17.1	10.8	7.4	6.8
75°	37.6	35.9	31.9	27.4	22.8	19.4	16.0	10.8	5.7	2.9	2.9
77.5°	19.4	19.4	18.8	17.1	14.3	11.4	9.1	6.3	3.4	1.1	1.1
80°	14.8	16.0	16.5	14.8	13.1	10.3	7.4	4.6	2.3	0.6	0.6
82.5°	14.3	16.5	17.7	15.4	13.1	9.7	7.4	4.6	2.3	0.6	0.6
85°	3.4	3.4	5.1	5.7	7.4	8.0	6.3	4.0	1.7	0.6	0.6
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	0.6	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)