

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: P652167

Luminaire Tested: **GALN-SA1B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833.2 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

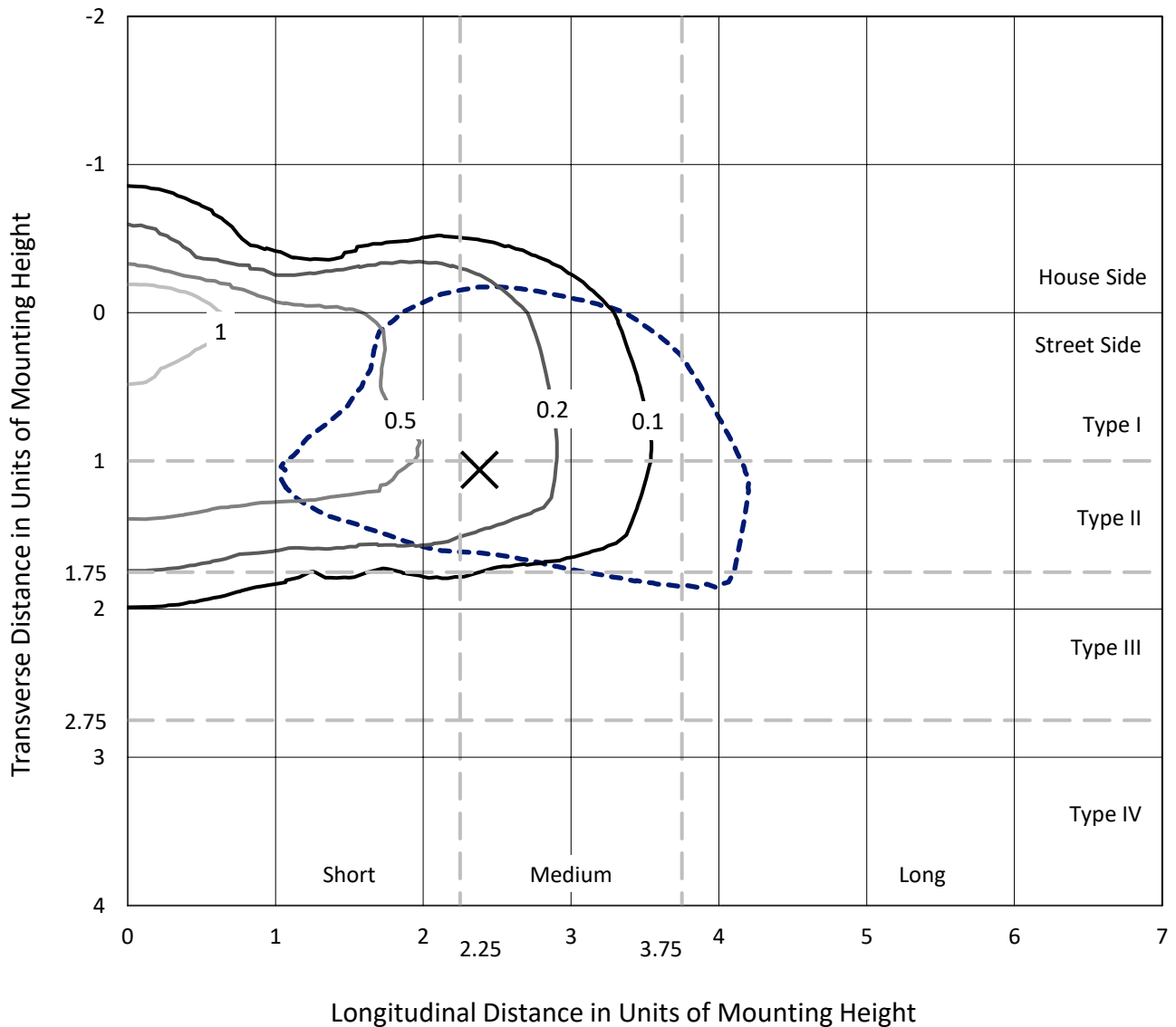
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

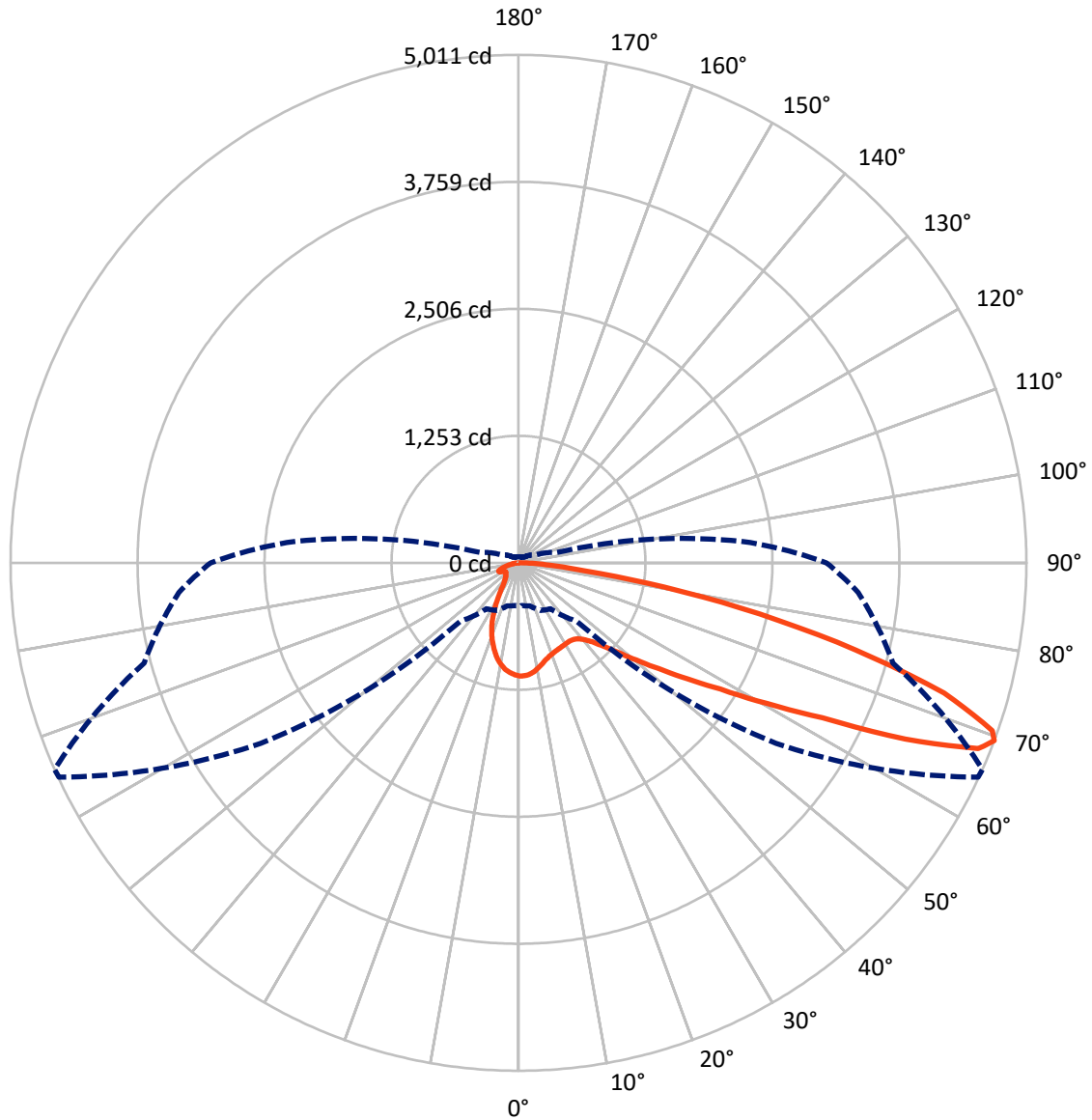
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	908.9	0.0	908.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3924.3	0.0	3924.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	4833.2	0.0	4833.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	2.0
10°-20°	229.9	4.8
20°-30°	313.0	6.5
30°-40°	420.6	8.7
40°-50°	628.0	13.0
50°-60°	998.9	20.7
60°-70°	1228.6	25.4
70°-80°	799.4	16.5
80°-90°	118.0	2.4
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°	4833.2	100.0
0°-180°	4833.2	100.0

Coefficient of Utilization

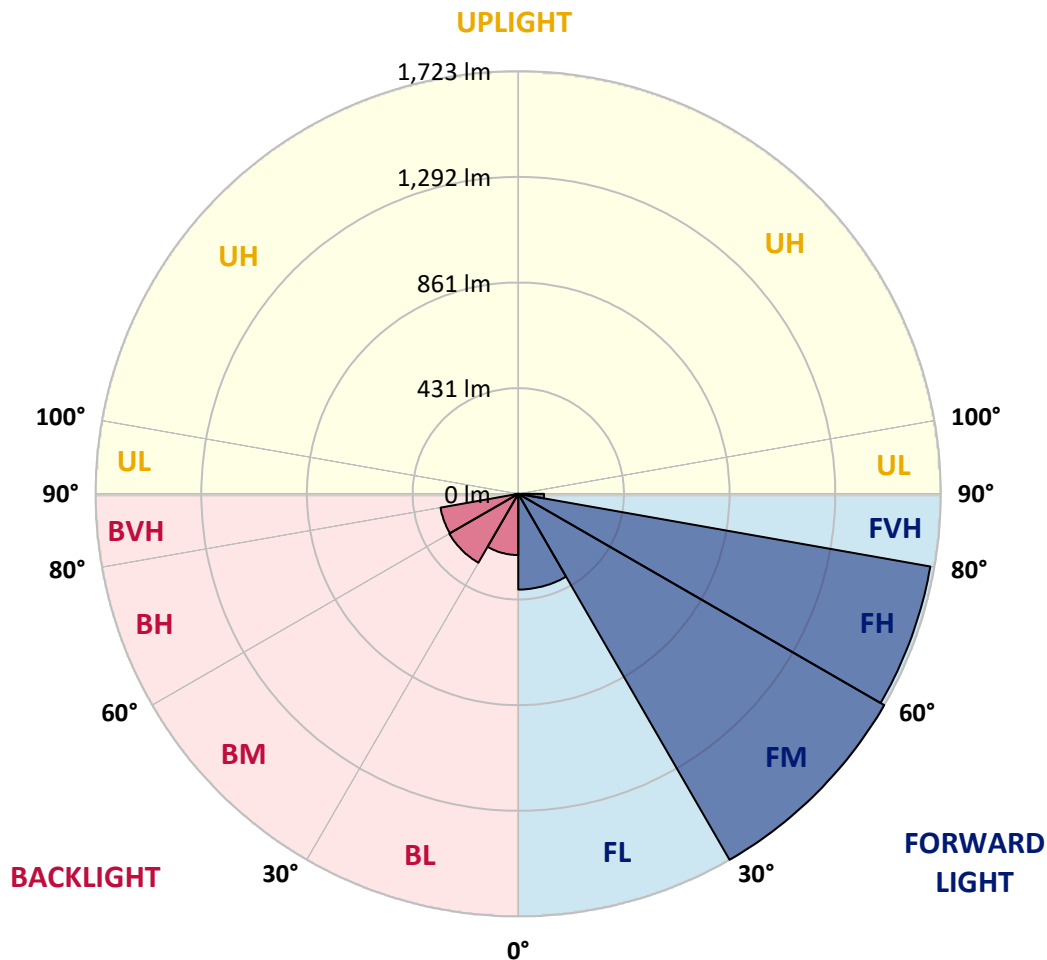


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.3	8.1			
FM (30°-60°)	1722.9	35.6			
FH (60°-80°)	1706.2	35.3			G1/1800
FVH (80°-90°)	104.9	2.2			G2/225
BL (0°-30°)	249.5	5.2	B1/500		
BM (30°-60°)	324.5	6.7	B1/1000		
BH (60°-80°)	321.8	6.7	B1/500		G1/500
BVH (80°-90°)	13.1	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1
2.5°	1077.1	1081.4	1086.2	1091.5	1101.7	1107.3	1111.3	1115.8	1116.4	1118.8	1116.9
5°	997.6	1002.6	1009.9	1020.0	1035.3	1059.2	1083.7	1103.8	1106.3	1117.4	1120.7
7.5°	931.2	934.1	940.0	956.3	978.0	1004.5	1040.4	1081.0	1087.0	1113.7	1123.1
10°	877.1	880.0	887.0	903.9	925.3	958.5	997.8	1051.3	1056.2	1102.2	1123.7
12.5°	836.7	839.4	846.9	863.5	888.1	919.1	962.5	1019.2	1026.2	1087.0	1118.5
15°	805.9	811.0	817.1	830.8	856.7	886.8	928.8	989.8	995.4	1070.9	1115.1
17.5°	792.8	795.2	799.5	812.1	831.1	860.5	902.8	966.8	973.5	1059.7	1114.2
20°	793.3	795.8	796.5	803.5	817.1	842.6	884.3	948.6	956.6	1049.7	1115.6
22.5°	811.6	811.8	808.9	806.4	811.8	832.9	871.2	934.9	944.3	1045.4	1116.7
25°	839.7	844.4	840.2	828.9	819.0	829.2	866.1	927.5	936.3	1039.3	1115.3
27.5°	885.2	885.9	882.5	867.2	841.5	834.0	864.0	921.8	929.3	1034.8	1108.6
30°	946.1	943.8	940.6	923.7	883.3	852.5	868.6	916.7	924.5	1028.0	1100.6
32.5°	1008.0	1015.5	1012.6	992.7	940.2	888.3	883.3	916.2	922.6	1023.0	1091.8
35°	1073.5	1077.1	1090.9	1080.8	1027.0	946.5	910.8	924.5	929.6	1023.2	1085.6
37.5°	1124.9	1134.3	1167.0	1175.8	1125.3	1023.2	955.5	948.1	950.2	1036.4	1088.0
40°	1187.1	1203.1	1245.1	1281.3	1248.0	1123.1	1031.6	991.7	994.3	1068.0	1103.8
42.5°	1265.7	1277.0	1333.5	1382.4	1377.1	1255.0	1123.7	1063.1	1064.5	1130.8	1148.0
45°	1357.8	1373.9	1437.4	1510.9	1523.5	1404.4	1256.6	1171.3	1170.4	1228.5	1230.4
47.5°	1475.6	1485.5	1548.4	1628.7	1679.6	1592.0	1418.0	1326.5	1317.9	1370.9	1355.7
50°	1584.0	1599.5	1647.2	1735.0	1861.6	1811.8	1630.3	1527.8	1507.7	1557.2	1531.5
52.5°	1629.5	1645.8	1686.0	1794.9	2017.6	2096.0	1899.8	1767.9	1734.4	1772.4	1763.1
55°	1550.6	1571.7	1609.2	1741.6	2086.1	2423.9	2263.3	2045.4	2021.1	2004.8	2007.4
57.5°	1338.3	1358.4	1408.9	1555.1	2004.2	2661.8	2782.3	2402.2	2350.0	2274.8	2287.7
60°	1018.7	1031.3	1057.5	1219.4	1761.5	2723.7	3371.7	2853.2	2820.0	2543.8	2552.9
62.5°	723.5	737.6	755.9	836.7	1289.6	2549.4	3833.1	3483.0	3364.4	2822.4	2813.6
65°	587.5	577.9	599.8	637.6	756.6	1975.8	3937.0	4357.1	4193.9	3189.4	3066.8
67.5°	483.2	473.0	494.6	561.8	575.5	1146.9	3562.8	4924.6	4891.9	3588.5	3324.1
69°	427.7	422.4	441.4	517.9	552.5	814.5	3103.7	5003.5	5011.4	3823.8	3363.7
70°	385.4	387.5	406.0	495.7	542.0	671.5	2652.8	4894.6	4960.5	3941.3	3320.8
72.5°	283.8	288.3	313.9	410.6	532.1	569.9	1578.6	4275.3	4391.7	3948.2	3037.9
75°	198.3	196.2	218.9	309.2	502.7	564.7	927.2	3306.4	3438.3	3412.6	2552.6
77.5°	129.9	133.3	151.5	218.4	422.9	560.4	604.3	2345.7	2431.4	2282.3	1509.8
80°	91.5	91.2	101.4	149.1	313.7	538.5	494.9	1478.6	1456.9	896.9	447.7
82.5°	52.5	56.2	68.0	105.0	209.8	474.0	455.3	707.1	645.6	255.6	151.2
85°	29.2	30.5	40.5	63.4	122.6	357.1	397.5	321.7	303.5	106.8	65.0
87.5°	9.3	10.2	16.9	32.1	55.7	168.6	225.1	148.5	137.0	38.5	26.2
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°	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1	1116.1
2.5°	1117.8	1121.0	1112.4	1104.1	1096.6	1086.2	1076.8	1069.0	1063.7	1062.9	1060.2
5°	1121.5	1121.7	1105.4	1083.5	1062.1	1038.5	1014.2	996.8	980.4	971.4	966.8
7.5°	1124.2	1121.7	1092.3	1056.7	1015.5	972.7	929.8	895.6	869.1	858.7	862.7
10°	1123.1	1115.6	1072.5	1015.5	955.5	891.5	830.0	781.8	737.6	714.9	715.4
12.5°	1117.2	1104.9	1043.1	969.2	881.1	795.5	701.2	636.2	585.1	554.9	545.5
15°	1112.1	1090.7	1008.5	906.3	796.8	674.5	559.7	479.4	436.6	412.8	412.4
17.5°	1106.8	1077.1	970.8	839.7	699.9	542.5	422.1	360.8	340.7	343.1	339.1
20°	1101.1	1061.0	931.4	765.5	581.9	404.7	316.1	291.2	296.8	307.8	309.4
22.5°	1094.7	1043.8	889.2	683.9	457.7	304.6	256.4	252.6	267.1	284.3	286.7
25°	1084.8	1022.5	835.9	598.5	353.1	245.4	224.5	227.2	241.5	255.9	257.5
27.5°	1070.9	995.9	782.1	492.0	265.3	210.7	205.3	208.7	215.7	224.5	226.7
30°	1052.2	966.0	720.2	399.9	212.5	193.3	191.1	193.0	197.0	200.7	201.8
32.5°	1033.4	937.0	657.9	306.2	189.5	181.7	179.6	179.6	179.6	180.1	180.4
35°	1016.0	909.8	591.0	238.5	177.5	172.7	169.7	166.5	165.9	164.1	164.1
37.5°	1006.4	884.9	519.8	199.7	168.6	165.2	161.1	155.8	152.8	153.1	152.6
40°	1008.3	868.6	455.0	177.7	161.4	157.7	151.5	145.3	143.5	143.5	143.0
42.5°	1029.4	863.2	392.9	166.2	154.4	150.1	142.4	136.7	135.7	135.4	136.0
45°	1078.1	876.3	337.2	158.7	148.5	142.1	134.4	129.3	128.2	128.2	127.9
47.5°	1173.1	918.9	297.4	153.9	144.2	136.0	127.9	122.9	121.0	120.4	120.4
50°	1320.9	1011.2	267.7	149.6	138.9	130.4	122.0	116.1	113.2	112.9	112.7
52.5°	1526.2	1155.2	256.2	146.4	133.0	124.5	115.4	109.8	106.0	105.2	104.6
55°	1766.3	1356.2	272.0	144.0	126.9	117.7	108.4	102.5	99.1	97.4	97.1
57.5°	2044.4	1597.6	331.9	140.8	121.3	110.5	101.4	95.5	91.8	89.9	89.4
60°	2294.1	1845.7	436.6	138.9	116.4	102.8	93.4	88.1	84.6	82.7	82.4
62.5°	2568.4	2082.4	561.5	144.0	114.3	95.3	86.0	81.1	78.1	76.3	76.3
65°	2861.5	2319.2	644.3	161.1	117.5	89.4	77.9	73.8	71.2	69.9	69.6
67.5°	3059.1	2401.1	530.8	178.8	125.6	83.0	70.1	66.9	65.3	64.0	64.0
69°	3037.6	2297.5	391.6	183.3	127.9	79.7	65.9	63.4	61.3	60.7	60.2
70°	2969.9	2179.5	328.2	180.4	126.1	76.8	63.2	60.2	58.4	57.8	57.5
72.5°	2645.3	1890.1	244.4	156.8	107.3	66.6	55.9	53.2	51.6	50.9	50.9
75°	2197.7	1544.9	190.8	124.7	84.0	56.2	47.9	45.8	44.4	43.9	43.6
77.5°	1231.7	862.7	137.0	97.7	63.7	45.5	40.1	38.3	36.9	36.4	36.4
80°	343.1	246.5	80.6	64.5	43.4	34.6	31.9	30.5	28.7	27.3	28.1
82.5°	129.3	106.8	46.0	38.8	27.6	23.0	22.2	21.1	20.4	18.5	18.5
85°	62.9	51.9	29.4	20.6	15.2	12.0	11.5	10.9	10.4	9.1	9.3
87.5°	21.7	23.0	12.9	7.5	4.5	2.9	2.4	1.3	1.3	1.3	1.3
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)