

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: P947701

Luminaire Tested: **GALN-SB3A-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8497 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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

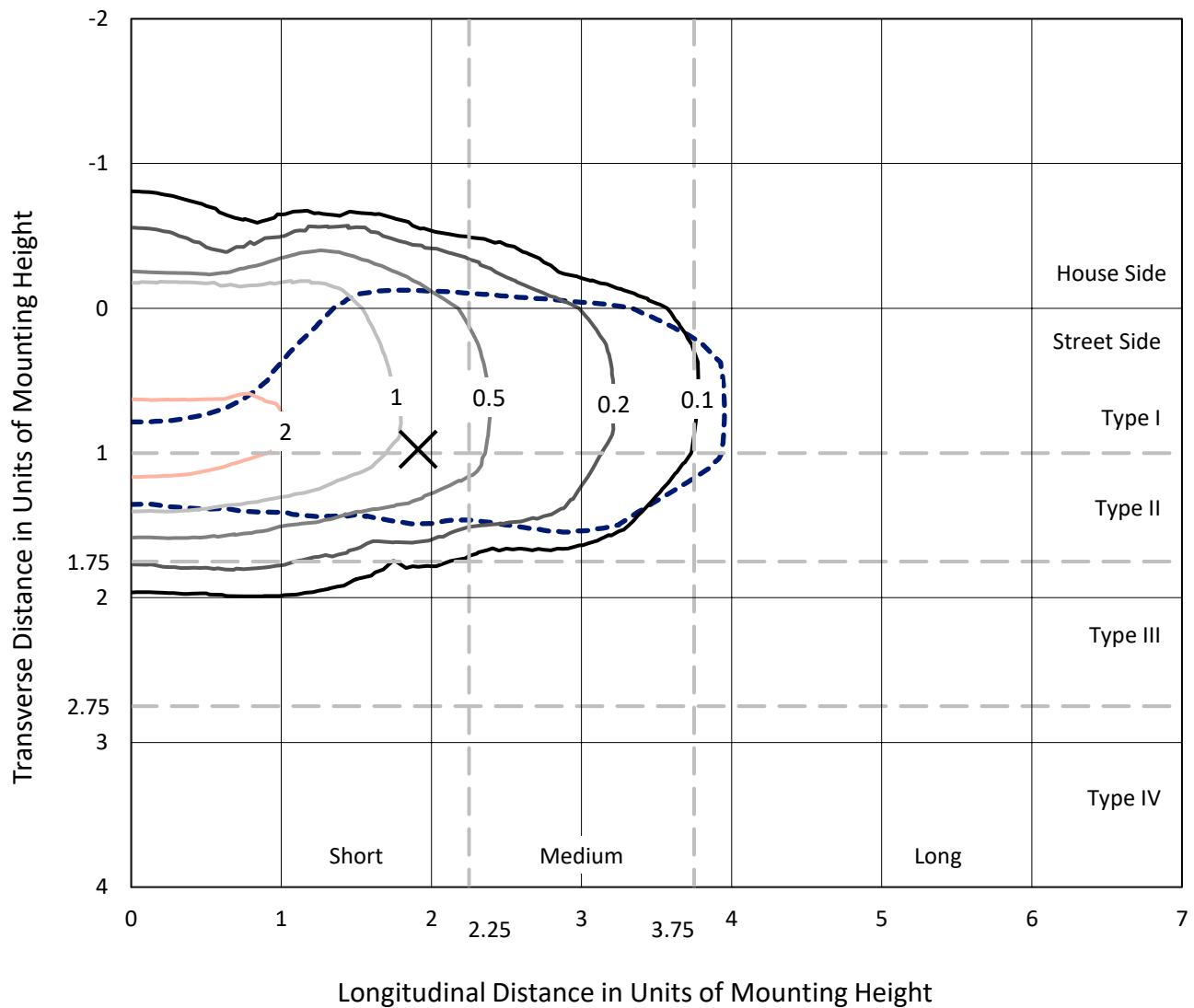


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Iso-Footcandle Lines of Horizontal Illumination

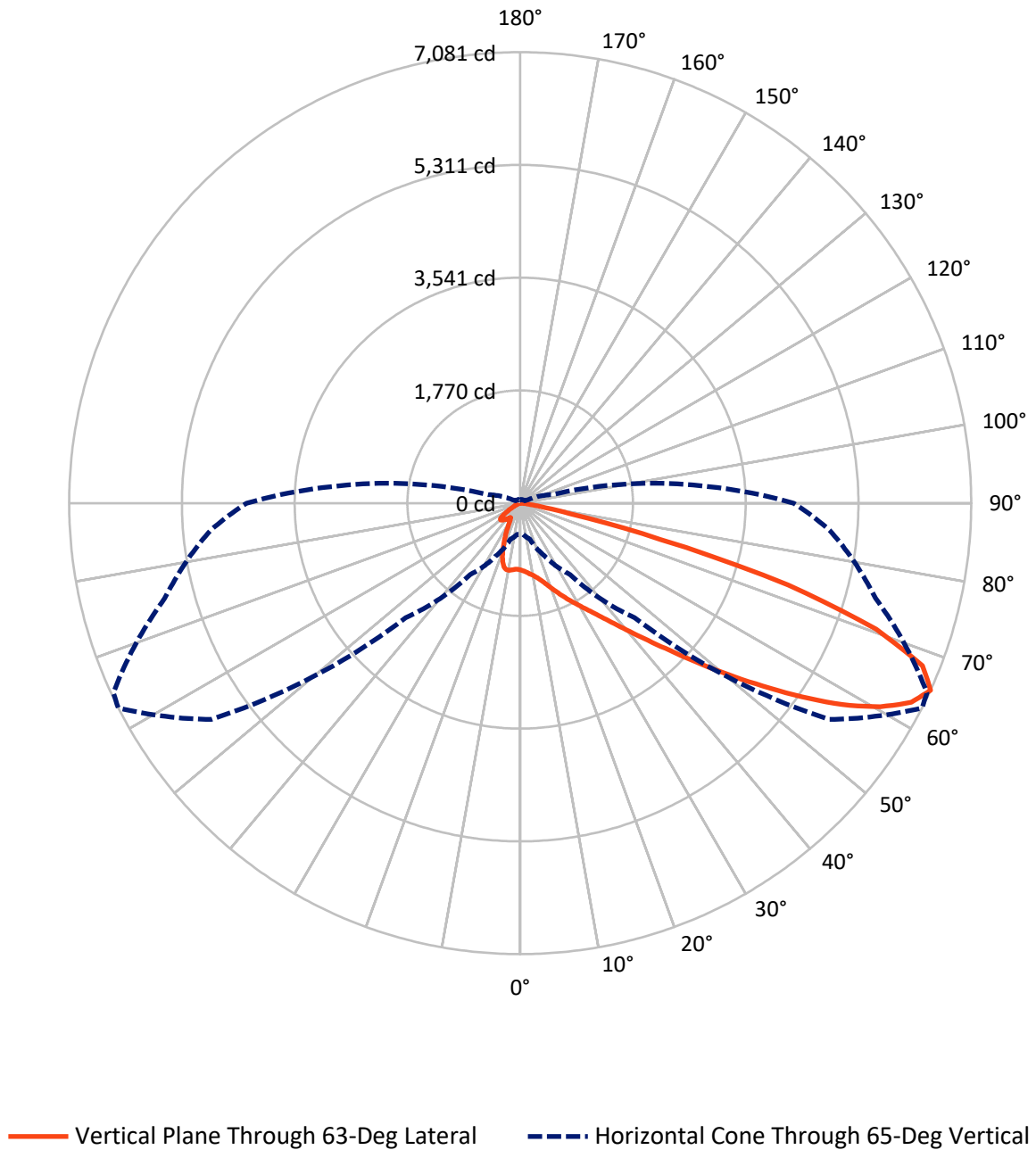
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.0	0.0	1249.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7248.0	0.0	7248.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	8497.0	0.0	8497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.2
10°-20°	274.2	3.2
20°-30°	477.4	5.6
30°-40°	860.4	10.1
40°-50°	1706.5	20.1
50°-60°	2324.5	27.4
60°-70°	1855.4	21.8
70°-80°	839.6	9.9
80°-90°	60.4	0.7
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°	8497.0	100.0
0°-180°	8497.0	100.0

Coefficient of Utilization



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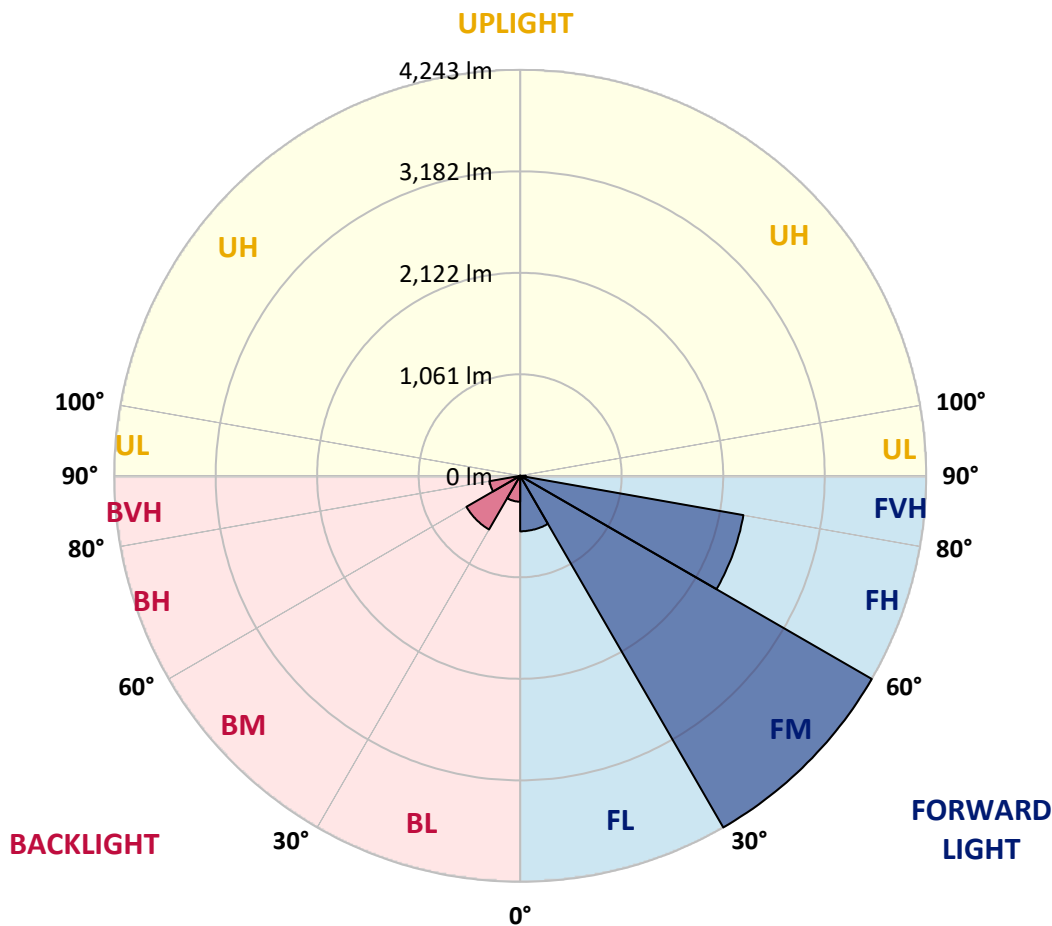
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	580.0	6.8			
FM	(30°-60°)	4243.2	49.9			
FH	(60°-80°)	2368.9	27.9			G2/5000
FVH	(80°-90°)	55.9	0.7			G1/100
BL	(0°-30°)	270.3	3.2	B1/500		
BM	(30°-60°)	648.1	7.6	B1/1000		
BH	(60°-80°)	326.1	3.8	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7
2.5°	1073.2	1070.3	1074.4	1072.7	1071.5	1069.1	1068.0	1066.8	1064.5	1062.7	1055.7
5°	1076.2	1074.4	1078.5	1082.0	1085.5	1089.0	1090.8	1093.1	1090.8	1086.1	1079.1
7.5°	1051.6	1050.4	1059.2	1069.7	1085.5	1099.0	1113.6	1121.8	1122.3	1120.6	1113.0
10°	1049.9	1046.9	1055.7	1068.6	1089.0	1113.0	1138.7	1156.2	1158.6	1166.2	1158.0
12.5°	1077.3	1074.4	1086.7	1100.7	1121.8	1146.9	1178.5	1203.0	1206.5	1217.0	1211.2
15°	1123.5	1119.4	1133.5	1151.6	1178.5	1207.1	1240.4	1262.6	1265.6	1278.4	1267.9
17.5°	1177.3	1173.2	1189.6	1208.9	1238.1	1277.3	1315.8	1340.4	1343.9	1352.1	1332.8
20°	1246.3	1241.0	1253.9	1271.4	1302.4	1349.2	1395.3	1430.4	1429.8	1429.8	1398.3
22.5°	1326.4	1318.2	1329.3	1343.3	1372.5	1429.2	1490.6	1532.1	1532.1	1515.7	1463.7
25°	1412.3	1404.1	1416.4	1429.2	1455.0	1519.3	1591.2	1642.6	1644.9	1616.9	1533.9
27.5°	1519.8	1509.3	1518.7	1533.9	1549.1	1614.5	1699.9	1759.5	1760.7	1717.4	1600.5
30°	1726.8	1697.0	1667.7	1651.4	1658.4	1723.3	1814.5	1880.5	1886.4	1826.7	1673.0
32.5°	2105.6	2099.7	1996.8	1862.4	1792.2	1840.2	1942.5	2022.0	2025.5	1948.9	1767.1
35°	2694.2	2687.2	2521.8	2265.7	2037.2	1996.8	2098.0	2192.1	2189.7	2103.2	1889.3
37.5°	3396.8	3390.4	3172.4	2829.8	2459.8	2233.6	2298.5	2397.3	2411.9	2298.5	2047.1
40°	3997.2	3973.2	3835.3	3505.0	3021.0	2626.4	2583.7	2649.2	2664.4	2530.0	2247.6
42.5°	4452.0	4431.5	4361.4	4155.0	3700.2	3207.4	2919.8	2945.0	2961.9	2800.6	2477.9
45°	4687.5	4682.9	4710.9	4691.6	4392.3	3920.6	3400.4	3295.7	3302.1	3100.5	2739.2
47.5°	4720.9	4718.5	4846.5	5027.8	4987.4	4725.0	4017.1	3733.0	3710.2	3438.9	3023.3
50°	4524.4	4519.8	4765.3	5104.9	5384.9	5400.7	4717.4	4225.7	4175.5	3789.1	3319.7
52.5°	3897.2	3896.1	4299.4	4864.7	5524.6	5992.3	5409.5	4767.0	4682.9	4159.7	3633.0
55°	2998.8	3020.4	3482.8	4150.9	5269.8	6276.9	6030.8	5368.0	5238.8	4532.6	3921.8
57.5°	2124.3	2155.8	2613.0	3208.0	4479.4	6108.6	6451.1	5970.1	5830.9	4904.4	4214.6
60°	1141.0	1169.1	1626.8	2337.0	3332.5	5480.8	6672.7	6492.6	6361.1	5257.5	4478.9
62.5°	679.8	689.2	878.6	1508.7	2254.0	4187.2	6578.6	6890.7	6782.6	5553.9	4708.6
65°	488.1	489.9	585.1	921.3	1368.4	2544.0	5918.6	7081.3	7048.0	5777.1	4878.7
67.5°	410.9	409.8	449.5	612.0	932.4	1274.3	4536.1	6811.8	6953.3	5918.6	4975.1
70°	352.5	354.2	401.0	448.4	700.9	721.3	2255.2	5930.9	6232.5	5956.0	4969.3
72.5°	262.5	268.3	311.6	408.6	529.0	496.3	778.6	4397.6	4943.0	5611.7	4711.5
75°	185.3	188.2	219.2	343.7	394.6	361.3	397.5	2273.3	2972.5	4302.3	3856.3
77.5°	142.6	147.9	166.0	240.3	388.7	253.7	243.2	786.8	1208.9	2598.9	2643.9
80°	77.2	86.5	119.8	173.6	273.0	179.5	120.4	313.3	409.8	1215.3	1019.5
82.5°	39.7	44.4	83.6	125.1	155.5	156.7	59.6	130.4	168.9	375.3	139.7
85°	15.8	19.3	56.1	69.0	80.1	77.2	26.9	52.6	60.8	104.1	42.7
87.5°	3.5	5.8	20.5	15.8	15.2	16.4	6.4	12.3	11.7	12.3	7.6
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°	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7	1048.7
2.5°	1055.1	1052.8	1046.4	1039.3	1031.2	1026.5	1023.6	1023.0	1018.9	1016.0	1018.9
5°	1072.7	1070.3	1058.0	1043.4	1027.6	1015.4	1003.7	993.2	978.0	975.0	973.9
7.5°	1107.7	1101.3	1081.4	1061.6	1031.7	996.1	952.8	903.1	858.7	845.3	838.8
10°	1151.0	1142.2	1117.1	1082.0	1016.0	918.9	814.3	717.2	640.1	618.5	610.3
12.5°	1200.1	1192.5	1159.2	1094.3	949.9	773.9	613.8	493.4	418.5	399.8	394.6
15°	1258.5	1247.4	1201.3	1075.6	831.8	588.1	421.5	350.1	323.3	319.8	316.2
17.5°	1320.5	1302.4	1238.7	1008.4	672.8	418.0	325.6	305.1	293.4	289.9	288.2
20°	1377.2	1353.8	1260.9	906.6	502.7	325.6	291.7	278.2	267.7	263.6	261.3
22.5°	1433.9	1400.6	1260.9	768.1	377.0	288.8	267.7	255.5	243.2	237.9	235.0
25°	1493.0	1448.5	1238.7	613.8	303.4	264.8	244.9	231.5	221.0	214.5	212.2
27.5°	1550.2	1488.9	1187.8	467.6	270.1	243.8	223.9	211.0	201.1	196.4	196.4
30°	1604.6	1528.6	1116.5	354.8	248.4	223.3	204.6	193.5	183.6	178.9	179.5
32.5°	1678.3	1578.9	1040.5	291.1	229.7	204.0	187.1	176.5	167.8	164.3	164.3
35°	1780.6	1653.1	975.0	285.8	213.9	188.2	171.3	161.3	152.6	149.6	149.6
37.5°	1925.5	1773.0	940.5	320.9	201.1	174.2	158.4	147.9	139.7	137.4	136.8
40°	2104.4	1935.5	959.3	356.0	192.3	161.9	146.7	136.2	129.2	126.3	125.7
42.5°	2316.6	2136.0	1062.7	382.9	186.5	151.4	135.6	123.9	119.2	118.1	118.1
45°	2560.3	2356.3	1221.1	411.5	177.1	141.5	124.5	115.7	112.2	111.6	111.1
47.5°	2837.4	2598.3	1404.7	447.2	167.8	132.1	115.7	109.9	107.0	105.8	105.8
50°	3112.2	2842.1	1593.5	467.1	160.2	123.3	108.7	104.1	101.7	101.1	101.1
52.5°	3399.8	3092.9	1746.1	448.4	153.7	116.3	102.9	99.4	97.0	96.5	96.5
55°	3673.9	3295.7	1772.4	380.5	140.9	109.3	96.5	94.7	91.8	91.8	91.2
57.5°	3910.1	3397.4	1586.5	279.4	128.0	98.8	90.0	88.3	85.9	85.3	84.8
60°	4127.0	3368.2	1224.6	188.2	114.0	88.3	81.8	80.7	78.3	75.4	74.8
62.5°	4249.1	3239.6	837.7	122.8	100.0	77.2	72.5	71.9	66.6	60.8	59.6
65°	4295.3	2975.4	522.6	89.4	83.6	66.1	62.5	61.4	53.8	47.3	46.8
67.5°	4255.0	2540.5	263.6	70.7	66.1	54.9	51.4	51.4	46.2	40.3	39.7
70°	4093.6	1904.5	111.1	56.7	50.9	42.1	42.1	44.4	39.2	32.7	32.2
72.5°	3743.5	1281.3	59.0	43.3	38.0	29.8	34.5	36.2	31.0	24.6	24.6
75°	2976.0	781.5	40.9	32.2	24.0	21.0	26.3	27.5	21.0	16.4	15.8
77.5°	2035.4	448.9	27.5	20.5	15.2	12.3	18.1	17.0	11.1	7.6	8.2
80°	893.8	187.1	15.8	9.4	5.8	4.7	6.4	4.7	3.5	2.3	2.3
82.5°	104.6	43.8	5.8	3.5	2.3	1.2	0.6	0.0	0.0	0.0	0.0
85°	21.6	5.3	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	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)