

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: P452305

Luminaire Tested: **GALN-SA3B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10277 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

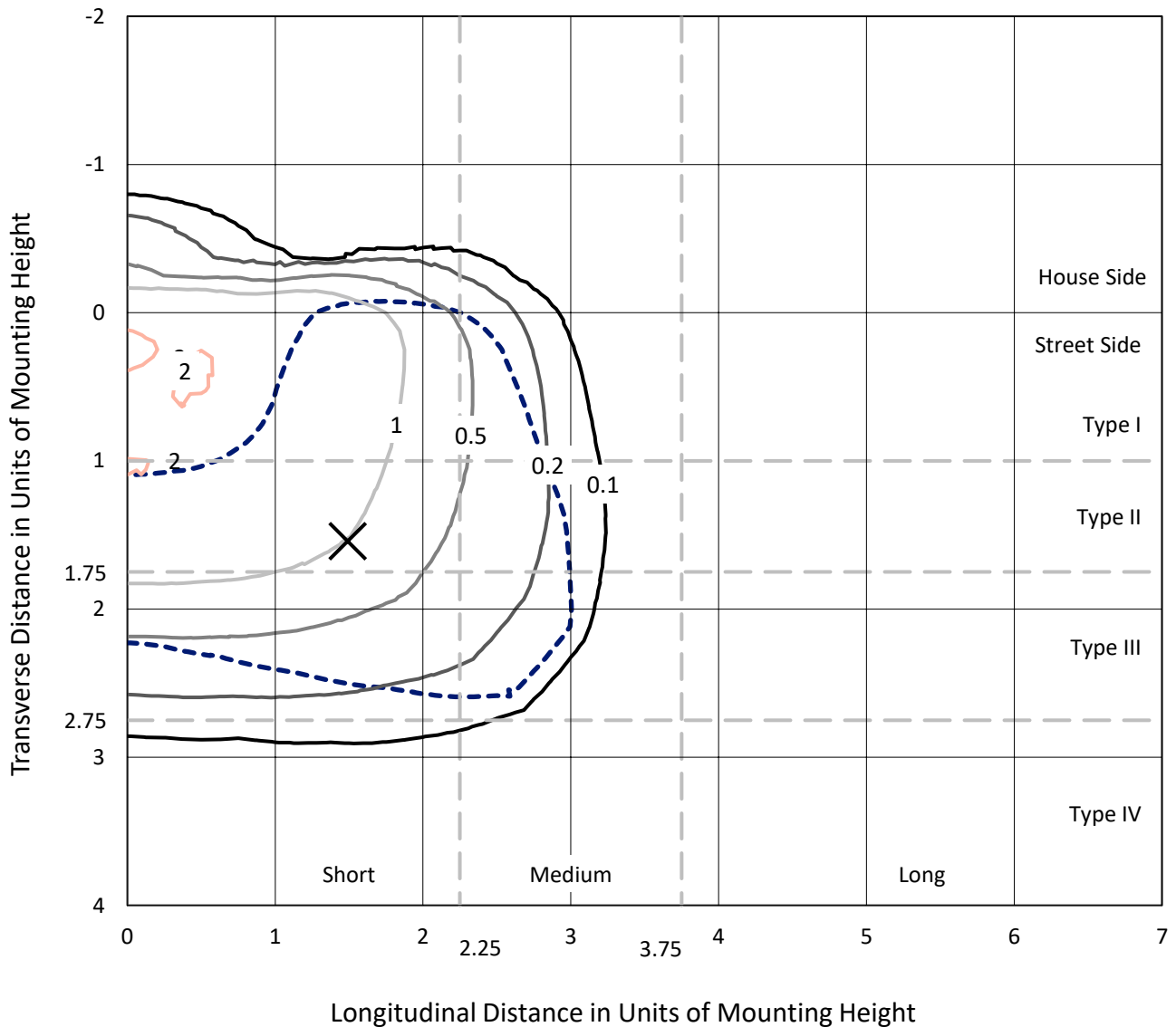
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

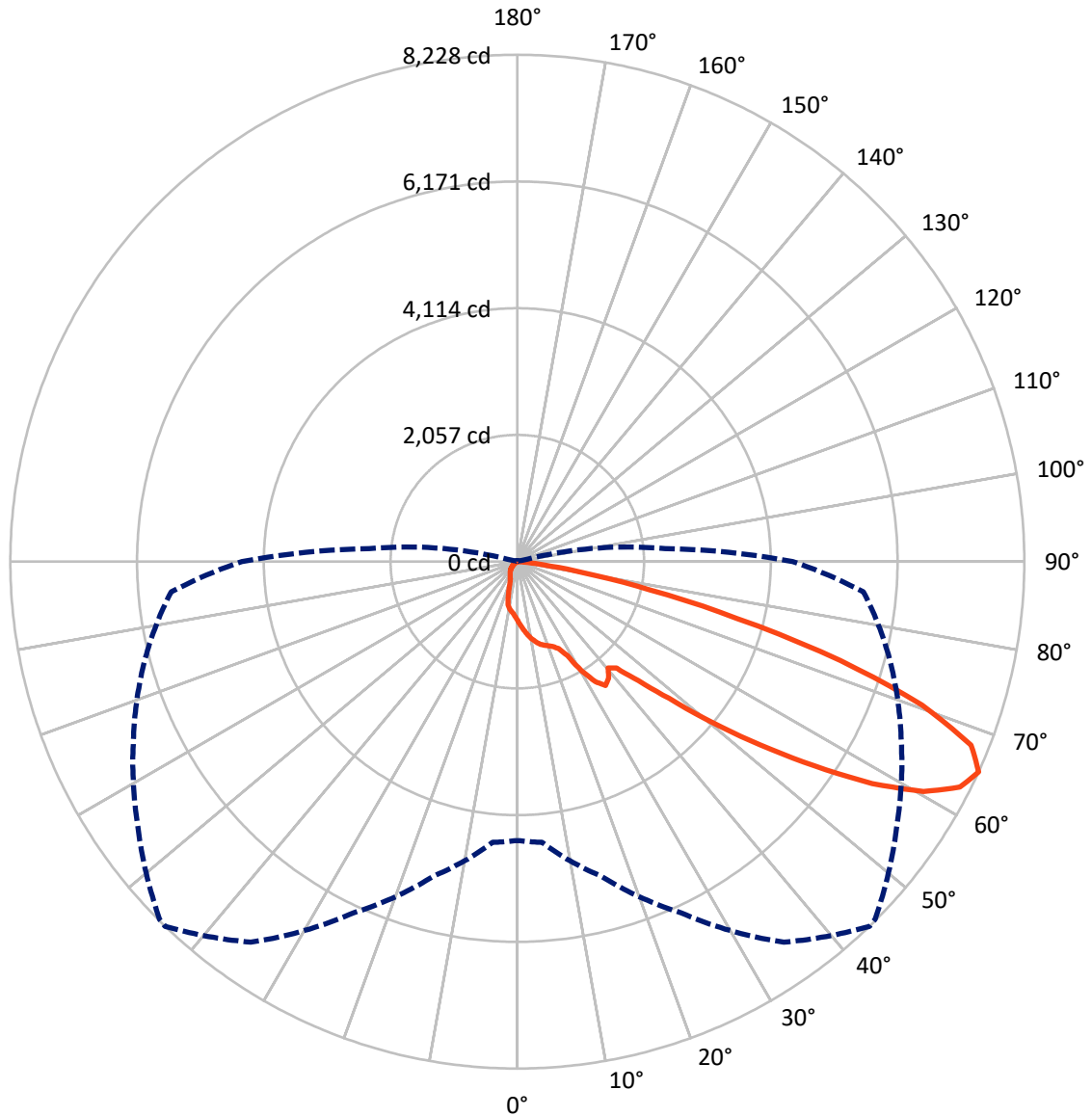
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.9	0.0	946.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9330.1	0.0	9330.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	10277.0	0.0	10277.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	0.9
10°-20°	286.3	2.8
20°-30°	485.5	4.7
30°-40°	807.2	7.9
40°-50°	1409.4	13.7
50°-60°	2753.5	26.8
60°-70°	3194.7	31.1
70°-80°	1163.3	11.3
80°-90°	82.0	0.8
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°	10277.0	100.0
0°-180°	10277.0	100.0



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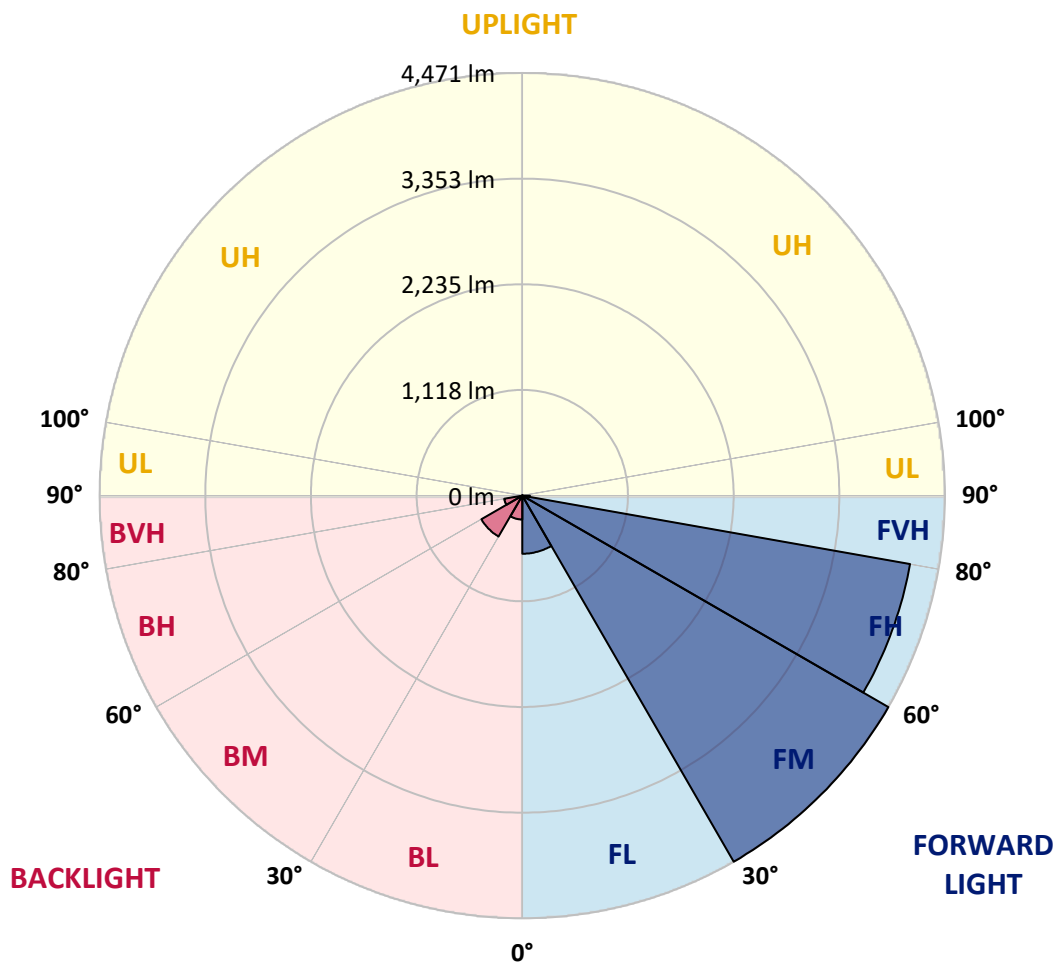
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.7	6.0			
FM	(30°-60°)	4470.5	43.5			
FH	(60°-80°)	4164.1	40.5			G2/5000
FVH	(80°-90°)	80.8	0.8			G1/100
BL	(0°-30°)	252.3	2.5	B1/500		
BM	(30°-60°)	499.6	4.9	B1/1000		
BH	(60°-80°)	193.9	1.9	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	1076.6	1071.9	1069.6	1057.0	1047.6	1035.8	1035.8	1020.9	1003.6	984.8	967.5
5°	1196.8	1188.9	1178.7	1167.7	1145.7	1114.3	1114.3	1082.9	1046.8	1014.6	979.3
7.5°	1312.2	1305.2	1287.9	1266.7	1230.5	1197.6	1195.2	1149.7	1106.5	1057.8	1007.5
10°	1413.5	1408.0	1393.1	1352.3	1314.6	1271.4	1270.6	1219.6	1169.3	1109.6	1047.6
12.5°	1484.2	1485.0	1465.3	1426.1	1377.4	1336.6	1333.4	1283.2	1230.5	1166.2	1090.0
15°	1534.5	1534.5	1514.0	1470.1	1426.1	1390.0	1386.8	1342.8	1288.7	1218.8	1136.3
17.5°	1548.6	1553.3	1531.3	1492.0	1456.7	1425.3	1424.5	1387.6	1344.4	1276.9	1183.4
20°	1543.1	1547.8	1530.5	1499.9	1475.6	1457.5	1455.1	1440.2	1400.2	1336.6	1233.7
22.5°	1531.3	1536.0	1523.5	1505.4	1493.6	1499.1	1495.2	1507.8	1486.6	1409.6	1293.4
25°	1533.7	1538.4	1529.0	1518.7	1529.0	1562.7	1572.9	1627.1	1608.3	1502.3	1357.8
27.5°	1607.5	1616.9	1603.6	1608.3	1644.4	1722.9	1742.6	1836.0	1752.8	1620.1	1458.3
30°	1771.6	1765.3	1740.2	1763.0	1888.6	2055.1	2049.6	2034.7	1904.3	1755.9	1577.6
32.5°	1920.8	1915.3	1913.7	2011.9	2239.6	2320.5	2316.6	2172.1	2040.2	1911.4	1695.4
35°	1981.3	1960.1	1955.4	2193.3	2574.2	2467.4	2443.0	2228.7	2205.1	2081.0	1815.6
37.5°	2163.5	2148.6	2075.5	2223.2	2440.7	2405.3	2386.5	2326.0	2381.0	2231.0	1951.4
40°	2538.8	2497.2	2431.3	2286.8	2251.4	2266.3	2285.2	2450.9	2589.1	2436.0	2132.8
42.5°	3005.3	2995.9	2873.4	2604.0	2339.4	2359.8	2384.1	2711.6	2888.3	2744.6	2428.9
45°	3565.2	3578.6	3401.9	3083.8	2736.7	2754.0	2789.3	3096.4	3293.5	3224.4	2894.6
47.5°	4074.1	4063.9	4004.2	3673.6	3353.2	3314.7	3372.0	3590.3	3854.2	3865.2	3472.5
50°	4586.1	4640.3	4551.5	4422.0	4184.0	4103.1	4081.9	4188.7	4590.8	4538.2	4166.7
52.5°	5321.9	5350.2	5183.7	5150.7	5204.9	4942.6	4921.4	4947.3	5307.0	5126.4	4686.6
55°	5784.4	5767.9	5705.9	5963.5	6177.9	5850.4	5823.7	5719.3	5901.4	5541.8	5186.8
57.5°	5930.5	5954.1	6098.6	6564.2	7071.5	6793.5	6744.8	6448.0	6330.2	5928.9	5647.0
60°	5865.3	5908.5	6220.3	6912.9	7616.5	7574.9	7533.3	7034.6	6638.0	6252.5	5969.8
62.5°	5401.2	5461.7	5960.3	6850.9	7801.1	8061.0	8009.2	7400.6	6843.0	6409.5	6026.3
65°	4526.4	4571.2	5287.4	6287.8	7538.8	8227.5	8208.6	7515.2	6875.2	6265.8	5639.2
67.5°	3226.8	3379.1	4042.7	5299.1	6762.9	7943.2	7975.4	7377.8	6572.9	5644.7	4670.1
70°	2028.4	2132.1	2607.9	3793.7	5421.6	6968.7	7074.7	6748.8	5704.3	4400.0	3126.2
72.5°	967.5	1044.4	1383.7	2401.4	3826.7	5482.9	5566.9	5540.2	4411.0	2772.1	1613.0
75°	431.1	460.2	660.4	1225.8	2470.5	3685.4	3902.9	3939.0	2756.4	1356.2	627.4
77.5°	219.9	220.7	309.4	593.7	1233.7	2198.8	2242.0	2368.4	1494.4	597.6	218.3
80°	117.0	124.9	164.1	280.3	640.0	1082.9	1077.4	1184.2	662.8	292.9	73.0
82.5°	52.6	58.1	92.7	146.8	312.5	410.7	442.9	484.5	284.3	186.9	32.2
85°	15.7	18.8	45.5	73.8	113.1	118.6	132.7	171.2	161.0	132.7	16.5
87.5°	2.4	2.4	18.8	20.4	16.5	21.2	22.0	24.3	51.8	48.7	8.6
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°	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5	956.5
2.5°	958.1	952.6	932.9	916.4	902.3	893.7	883.5	877.2	874.0	871.7	872.5
5°	962.0	948.6	914.9	888.2	867.7	845.8	830.8	822.2	818.3	812.0	812.0
7.5°	984.0	962.8	915.6	874.8	839.5	809.6	781.4	771.2	764.1	762.5	760.9
10°	1015.4	988.7	924.3	867.7	817.5	776.7	736.6	701.3	673.8	657.3	654.9
12.5°	1054.6	1016.2	937.6	863.0	798.6	726.4	620.4	548.9	501.0	486.1	488.4
15°	1090.8	1049.1	951.0	859.1	764.1	602.3	482.2	400.5	376.2	373.8	374.6
17.5°	1134.0	1084.5	966.7	853.6	669.1	460.2	358.1	336.1	340.8	348.7	347.9
20°	1178.7	1122.2	985.5	820.6	534.0	346.3	316.5	318.8	325.9	333.0	334.5
22.5°	1226.6	1165.4	1007.5	741.3	407.6	301.6	300.0	303.1	310.2	318.0	319.6
25°	1292.6	1219.6	1024.0	637.7	308.6	278.8	281.9	287.4	293.7	302.3	303.9
27.5°	1377.4	1292.6	1032.7	502.6	267.0	258.4	259.1	267.0	274.9	282.7	282.7
30°	1487.3	1379.8	1015.4	380.1	246.6	238.7	235.6	240.3	250.5	258.4	259.1
32.5°	1585.5	1462.2	969.8	290.6	231.7	220.7	212.8	213.6	217.5	222.2	223.0
35°	1683.7	1542.3	892.1	244.2	216.0	203.4	191.6	185.3	182.2	179.8	182.2
37.5°	1809.3	1642.0	788.4	222.2	202.6	186.9	170.4	157.1	146.1	139.0	140.6
40°	1971.1	1780.3	665.9	208.1	190.0	171.2	149.2	131.9	113.1	106.8	103.7
42.5°	2238.1	1989.9	537.1	196.3	177.5	154.7	127.2	103.7	86.4	80.1	81.7
45°	2659.8	2254.6	413.8	183.8	164.9	136.6	106.8	81.7	67.5	64.4	66.0
47.5°	3218.9	2597.0	318.8	169.6	149.2	117.0	84.0	64.4	55.8	55.0	54.2
50°	3745.0	2915.8	266.2	153.9	130.4	97.4	69.1	54.2	48.7	47.9	47.9
52.5°	4220.9	3144.3	216.7	135.9	109.9	80.1	58.1	47.9	43.2	40.8	40.8
55°	4644.2	3293.5	175.9	113.9	86.4	63.6	50.3	43.2	37.7	34.6	33.8
57.5°	4963.8	3311.6	131.9	91.1	64.4	49.5	43.2	37.7	31.4	27.5	25.9
60°	5100.5	3155.3	97.4	69.1	47.9	39.3	34.6	30.6	23.6	19.6	18.8
62.5°	4963.0	2851.4	72.2	52.6	36.9	29.1	24.3	22.8	16.5	11.8	11.0
65°	4470.7	2412.4	57.3	40.0	27.5	21.2	15.7	14.9	10.2	5.5	4.7
67.5°	3581.7	1889.4	45.5	29.8	19.6	14.1	10.2	9.4	5.5	1.6	1.6
70°	2329.2	1207.8	36.9	22.0	12.6	9.4	6.3	4.7	3.1	0.8	0.0
72.5°	1152.0	564.6	29.8	17.3	8.6	4.7	2.4	1.6	2.4	0.0	0.0
75°	446.8	201.0	22.0	11.8	4.7	2.4	1.6	0.0	0.8	0.0	0.0
77.5°	148.4	66.7	13.3	6.3	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	55.0	25.9	7.1	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.0	10.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	6.3	3.1	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.7	3.1	2.4	1.6	0.8	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)