

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: P453001

Luminaire Tested: **GALN-SA4A-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453001
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-SA4A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 10945 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

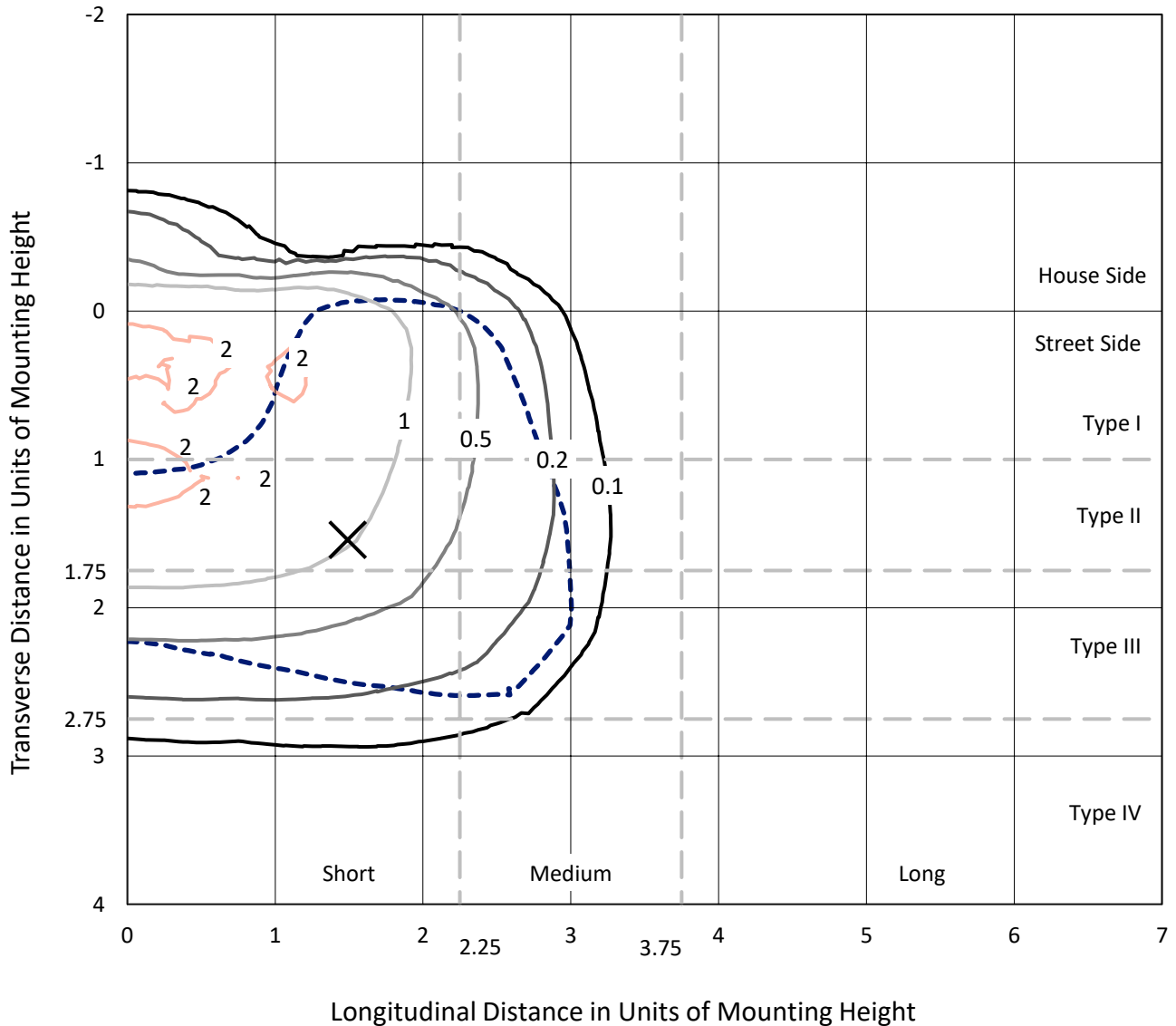
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

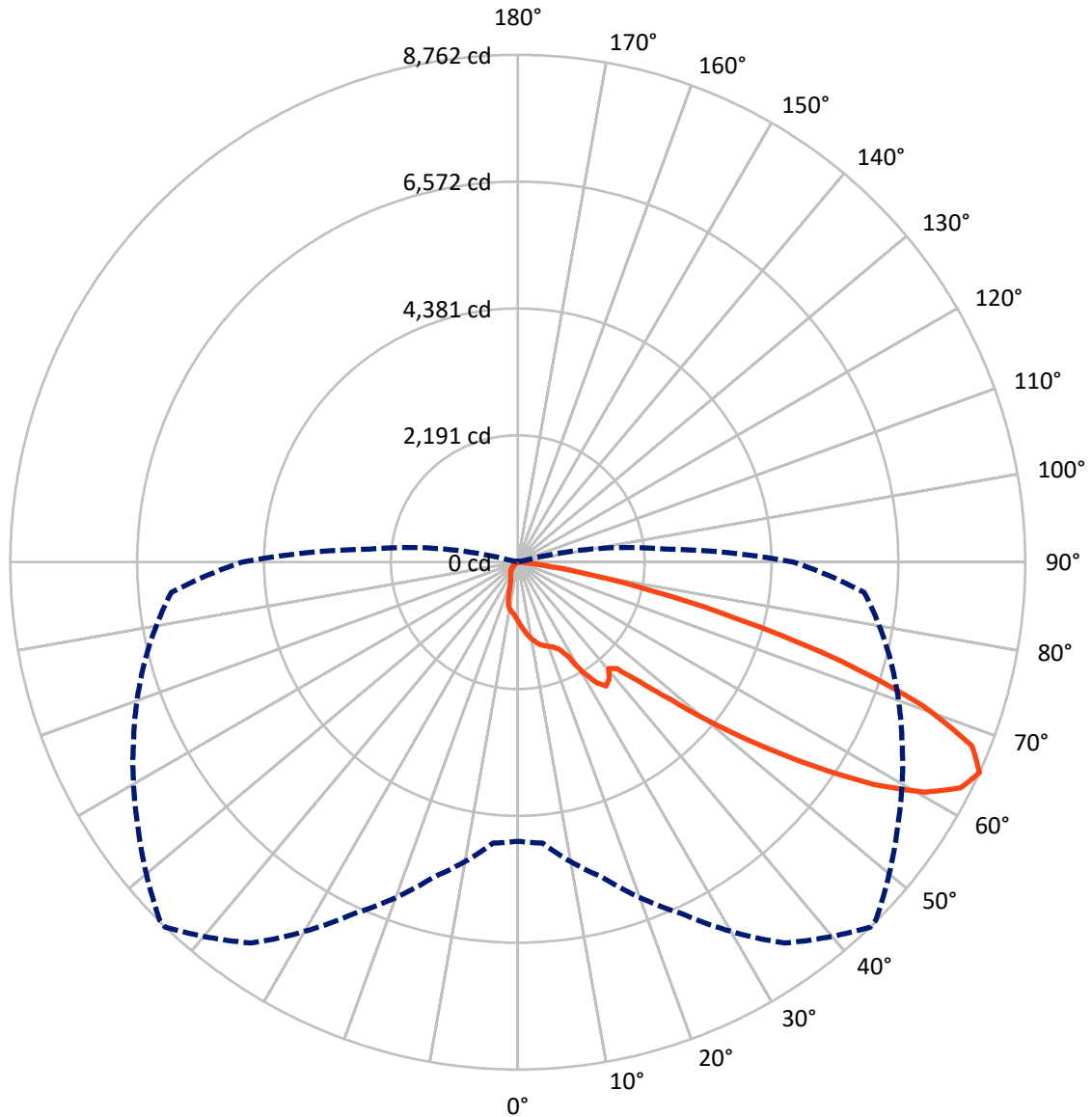
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1008.4	0.0	1008.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9936.6	0.0	9936.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	10945.0	0.0	10945.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	0.9
10°-20°	304.9	2.8
20°-30°	517.0	4.7
30°-40°	859.7	7.9
40°-50°	1501.0	13.7
50°-60°	2932.4	26.8
60°-70°	3402.3	31.1
70°-80°	1239.0	11.3
80°-90°	87.3	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°	10945.0	100.0
0°-180°	10945.0	100.0

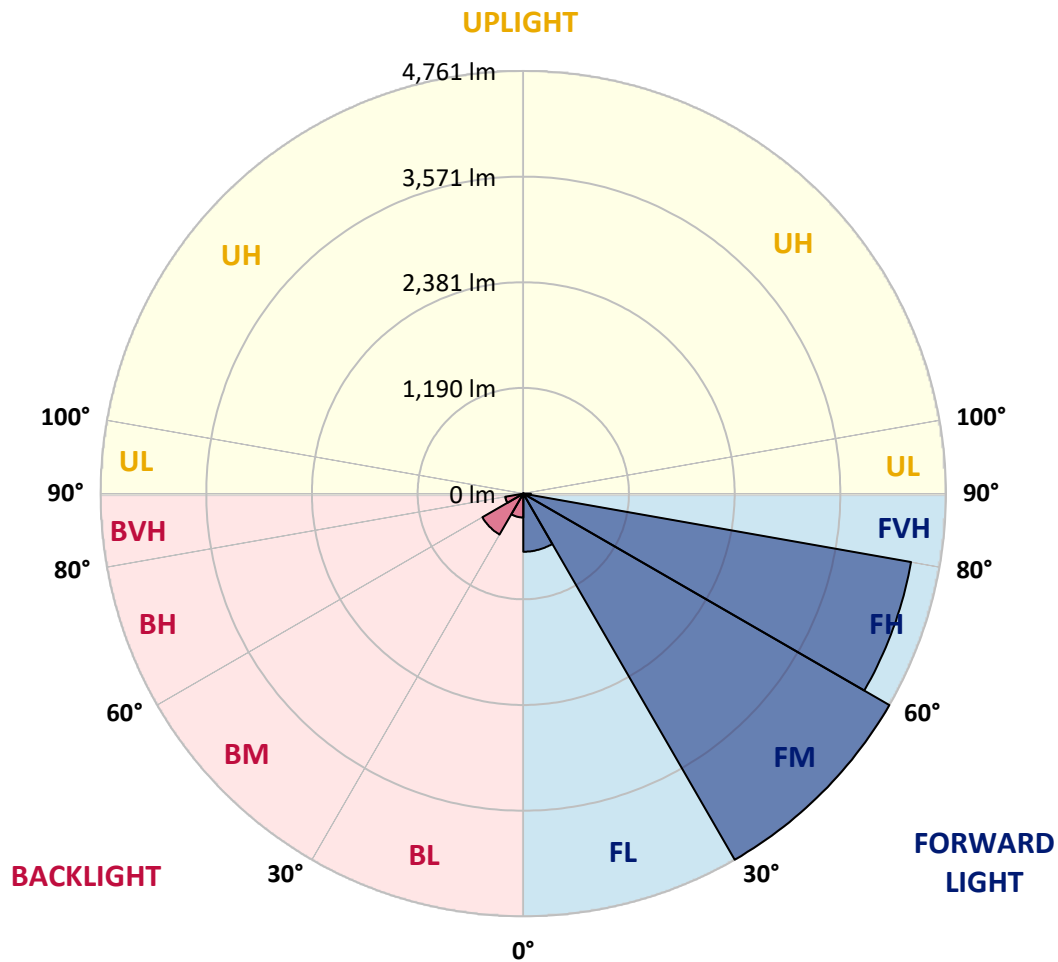


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.6	6.0			
FM (30°-60°)	4761.1	43.5			
FH (60°-80°)	4434.8	40.5			G2/5000
FVH (80°-90°)	86.1	0.8			G1/100
BL (0°-30°)	268.7	2.5	B1/500		
BM (30°-60°)	532.0	4.9	B1/1000		
BH (60°-80°)	206.5	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7
2.5°	1146.6	1141.6	1139.1	1125.7	1115.7	1103.1	1103.1	1087.2	1068.8	1048.8	1030.4
5°	1274.6	1266.2	1255.3	1243.6	1220.2	1186.8	1186.8	1153.3	1114.8	1080.5	1042.9
7.5°	1397.5	1390.0	1371.6	1349.0	1310.5	1275.4	1272.9	1224.4	1178.4	1126.5	1073.0
10°	1505.4	1499.5	1483.7	1440.2	1400.0	1354.0	1353.2	1298.8	1245.3	1181.7	1115.7
12.5°	1580.7	1581.5	1560.6	1518.8	1466.9	1423.4	1420.1	1366.6	1310.5	1242.0	1160.8
15°	1634.2	1634.2	1612.4	1565.6	1518.8	1480.3	1477.0	1430.1	1372.4	1298.0	1210.2
17.5°	1649.2	1654.3	1630.8	1589.0	1551.4	1517.9	1517.1	1477.8	1431.8	1359.9	1260.4
20°	1643.4	1648.4	1630.0	1597.4	1571.5	1552.2	1549.7	1533.8	1491.2	1423.4	1313.9
22.5°	1630.8	1635.9	1622.5	1603.2	1590.7	1596.6	1592.4	1605.8	1583.2	1501.2	1377.4
25°	1633.4	1638.4	1628.3	1617.5	1628.3	1664.3	1675.2	1732.9	1712.8	1599.9	1446.0
27.5°	1712.0	1722.0	1707.8	1712.8	1751.3	1834.9	1855.8	1955.3	1866.7	1725.4	1553.1
30°	1886.8	1880.1	1853.3	1877.6	2011.4	2188.7	2182.8	2166.9	2028.1	1870.0	1680.2
32.5°	2045.7	2039.8	2038.1	2142.7	2385.2	2471.4	2467.2	2313.3	2172.8	2035.6	1805.6
35°	2110.1	2087.5	2082.5	2335.9	2741.5	2627.8	2601.8	2373.5	2348.4	2216.3	1933.6
37.5°	2304.1	2288.2	2210.4	2367.7	2599.3	2561.7	2541.6	2477.2	2535.8	2376.0	2078.3
40°	2703.9	2659.5	2589.3	2435.4	2397.8	2413.7	2433.7	2610.2	2757.4	2594.3	2271.5
42.5°	3200.6	3190.6	3060.1	2773.3	2491.4	2513.2	2539.1	2887.9	3076.0	2923.0	2586.8
45°	3796.9	3811.2	3623.0	3284.3	2914.6	2933.0	2970.7	3297.7	3507.6	3434.0	3082.7
47.5°	4338.9	4328.0	4264.5	3912.4	3571.1	3530.2	3591.2	3823.7	4104.7	4116.4	3698.3
50°	4884.2	4941.9	4847.4	4709.4	4456.0	4369.8	4347.3	4461.0	4889.2	4833.2	4437.6
52.5°	5667.8	5697.9	5520.6	5485.5	5543.2	5263.9	5241.3	5268.9	5651.9	5459.6	4991.2
55°	6160.4	6142.9	6076.8	6351.1	6579.4	6230.7	6202.2	6091.0	6285.0	5902.0	5524.0
57.5°	6316.0	6341.1	6495.0	6990.9	7531.2	7235.1	7183.3	6867.1	6741.7	6314.3	6014.1
60°	6246.6	6292.6	6624.6	7362.2	8111.6	8067.3	8022.9	7491.9	7069.5	6658.9	6357.8
62.5°	5752.3	5816.7	6347.8	7296.2	8308.1	8585.0	8529.8	7881.6	7287.8	6826.1	6418.0
65°	4820.6	4868.3	5631.0	6696.5	8028.8	8762.3	8742.2	8003.7	7322.1	6673.1	6005.7
67.5°	3436.5	3598.7	4305.4	5643.6	7202.5	8459.5	8493.8	7857.3	7000.1	6011.6	4973.7
70°	2160.2	2270.6	2777.5	4040.3	5774.0	7421.6	7534.5	7187.4	6075.1	4686.0	3329.4
72.5°	1030.4	1112.3	1473.6	2557.5	4075.4	5839.3	5928.8	5900.3	4697.7	2952.3	1717.8
75°	459.1	490.1	703.4	1305.5	2631.1	3924.9	4156.6	4195.0	2935.5	1444.3	668.2
77.5°	234.2	235.0	329.5	632.3	1313.9	2341.7	2387.7	2522.4	1591.5	636.4	232.5
80°	124.6	133.0	174.8	298.6	681.6	1153.3	1147.4	1261.2	705.9	312.0	77.8
82.5°	56.0	61.9	98.7	156.4	332.9	437.4	471.7	516.0	302.8	199.0	34.3
85°	16.7	20.1	48.5	78.6	120.4	126.3	141.3	182.3	171.4	141.3	17.6
87.5°	2.5	2.5	20.1	21.7	17.6	22.6	23.4	25.9	55.2	51.9	9.2
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°	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7	1018.7
2.5°	1020.3	1014.5	993.6	976.0	960.9	951.7	940.9	934.2	930.8	928.3	929.2
5°	1024.5	1010.3	974.3	945.9	924.1	900.7	884.8	875.6	871.5	864.8	864.8
7.5°	1047.9	1025.3	975.2	931.7	894.0	862.3	832.2	821.3	813.8	812.1	810.4
10°	1081.4	1052.9	984.4	924.1	870.6	827.1	784.5	746.8	717.6	700.0	697.5
12.5°	1123.2	1082.2	998.6	919.1	850.6	773.6	660.7	584.6	533.6	517.7	520.2
15°	1161.7	1117.3	1012.8	914.9	813.8	641.5	513.5	426.5	400.6	398.1	398.9
17.5°	1207.7	1155.0	1029.5	909.1	712.6	490.1	381.4	358.0	363.0	371.3	370.5
20°	1255.3	1195.1	1049.6	874.0	568.7	368.8	337.0	339.6	347.1	354.6	356.3
22.5°	1306.4	1241.1	1073.0	789.5	434.1	321.2	319.5	322.8	330.4	338.7	340.4
25°	1376.6	1298.8	1090.6	679.1	328.7	296.9	300.2	306.1	312.8	322.0	323.7
27.5°	1466.9	1376.6	1099.8	535.3	284.4	275.2	276.0	284.4	292.7	301.1	301.1
30°	1584.0	1469.4	1081.4	404.8	262.6	254.2	250.9	255.9	266.8	275.2	276.0
32.5°	1688.6	1557.3	1032.9	309.4	246.7	235.0	226.6	227.5	231.7	236.7	237.5
35°	1793.1	1642.6	950.1	260.1	230.0	216.6	204.1	197.4	194.0	191.5	194.0
37.5°	1926.9	1748.8	839.7	236.7	215.8	199.0	181.5	167.3	155.6	148.0	149.7
40°	2099.2	1896.0	709.2	221.6	202.4	182.3	158.9	140.5	120.4	113.7	110.4
42.5°	2383.5	2119.3	572.1	209.1	189.0	164.8	135.5	110.4	92.0	85.3	87.0
45°	2832.7	2401.1	440.7	195.7	175.6	145.5	113.7	87.0	71.9	68.6	70.3
47.5°	3428.1	2765.8	339.6	180.6	158.9	124.6	89.5	68.6	59.4	58.5	57.7
50°	3988.5	3105.3	283.5	163.9	138.8	103.7	73.6	57.7	51.9	51.0	51.0
52.5°	4495.3	3348.7	230.8	144.7	117.1	85.3	61.9	51.0	46.0	43.5	43.5
55°	4946.1	3507.6	187.3	121.3	92.0	67.7	53.5	46.0	40.1	36.8	36.0
57.5°	5286.5	3526.8	140.5	97.0	68.6	52.7	46.0	40.1	33.5	29.3	27.6
60°	5432.0	3360.4	103.7	73.6	51.0	41.8	36.8	32.6	25.1	20.9	20.1
62.5°	5285.6	3036.7	76.9	56.0	39.3	30.9	25.9	24.3	17.6	12.5	11.7
65°	4761.2	2569.2	61.1	42.7	29.3	22.6	16.7	15.9	10.9	5.9	5.0
67.5°	3814.5	2012.2	48.5	31.8	20.9	15.1	10.9	10.0	5.9	1.7	1.7
70°	2480.6	1286.3	39.3	23.4	13.4	10.0	6.7	5.0	3.3	0.8	0.0
72.5°	1226.9	601.3	31.8	18.4	9.2	5.0	2.5	1.7	2.5	0.0	0.0
75°	475.9	214.1	23.4	12.5	5.0	2.5	1.7	0.0	0.8	0.0	0.0
77.5°	158.1	71.1	14.2	6.7	3.3	1.7	0.0	0.0	0.0	0.0	0.0
80°	58.5	27.6	7.5	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	23.4	10.9	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	6.7	3.3	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	5.0	3.3	2.5	1.7	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)