

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: P451870

Luminaire Tested: **GALN-SA2D-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451870  
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-SA2D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA 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: 10249 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

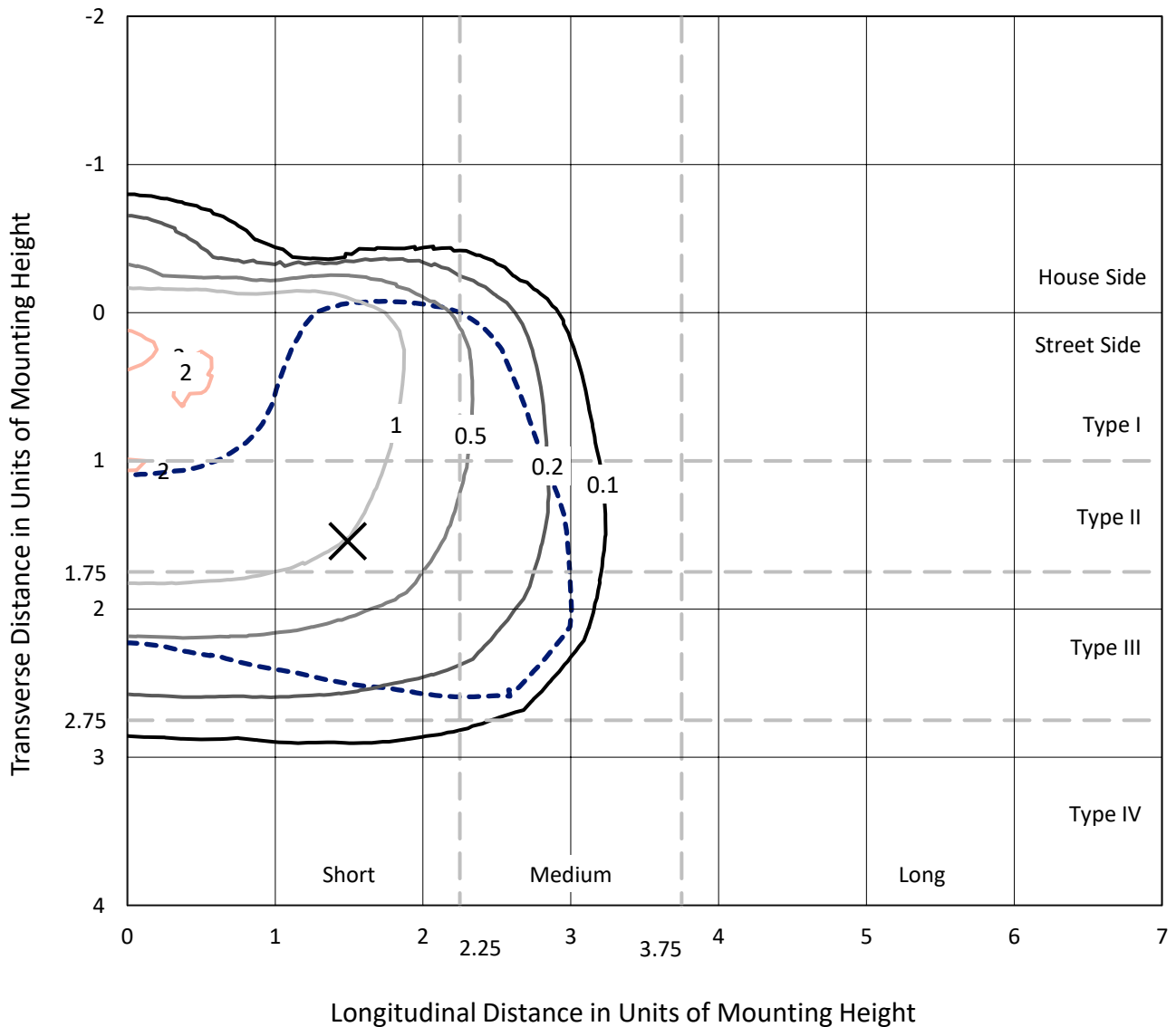
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

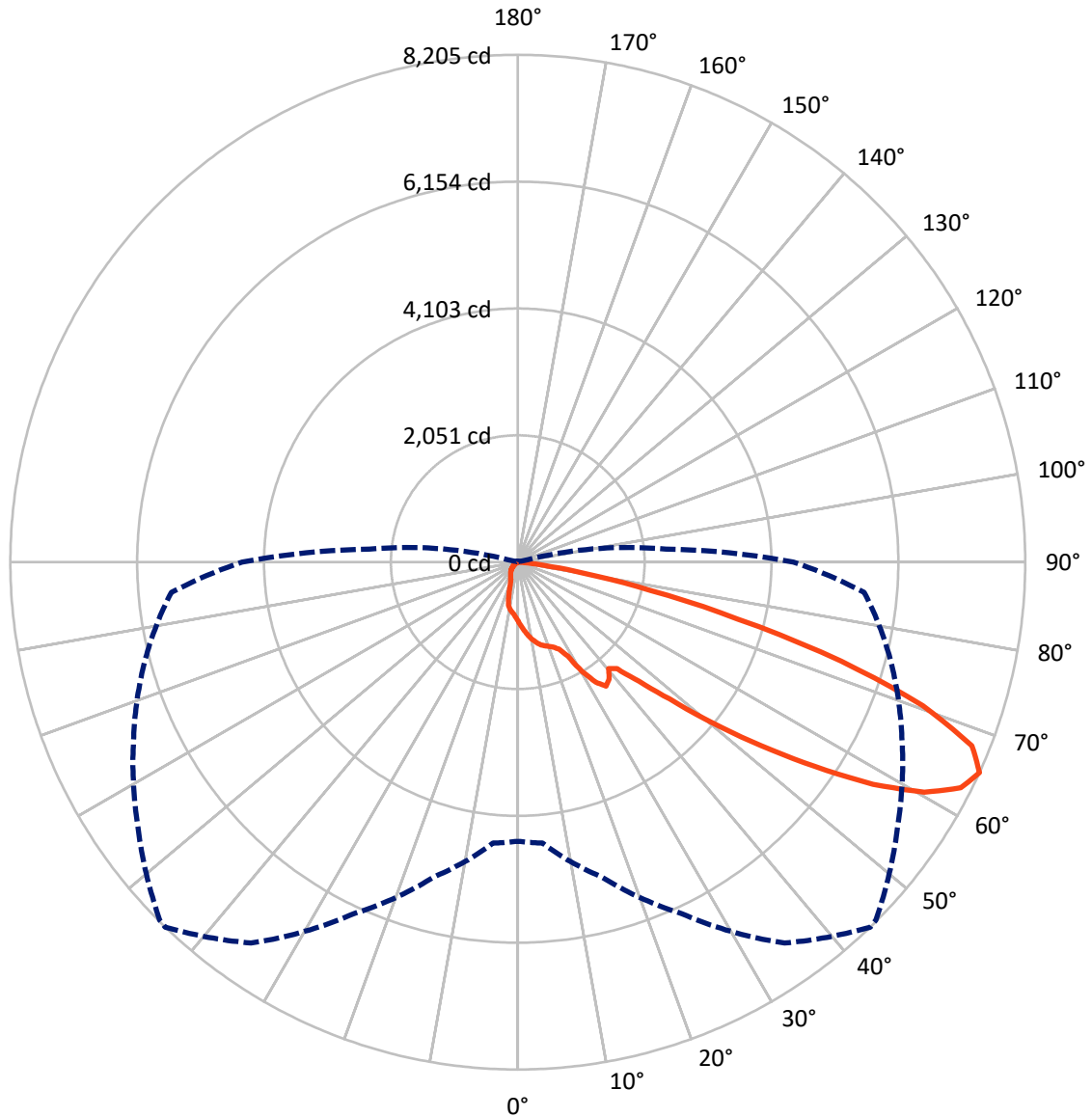
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	944.3	0.0	944.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	9304.7	0.0	9304.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	10249.0	0.0	10249.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.9	0.9
10°-20°	285.5	2.8
20°-30°	484.2	4.7
30°-40°	805.0	7.9
40°-50°	1405.6	13.7
50°-60°	2746.0	26.8
60°-70°	3186.0	31.1
70°-80°	1160.2	11.3
80°-90°	81.7	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°	10249.0	100.0
0°-180°	10249.0	100.0



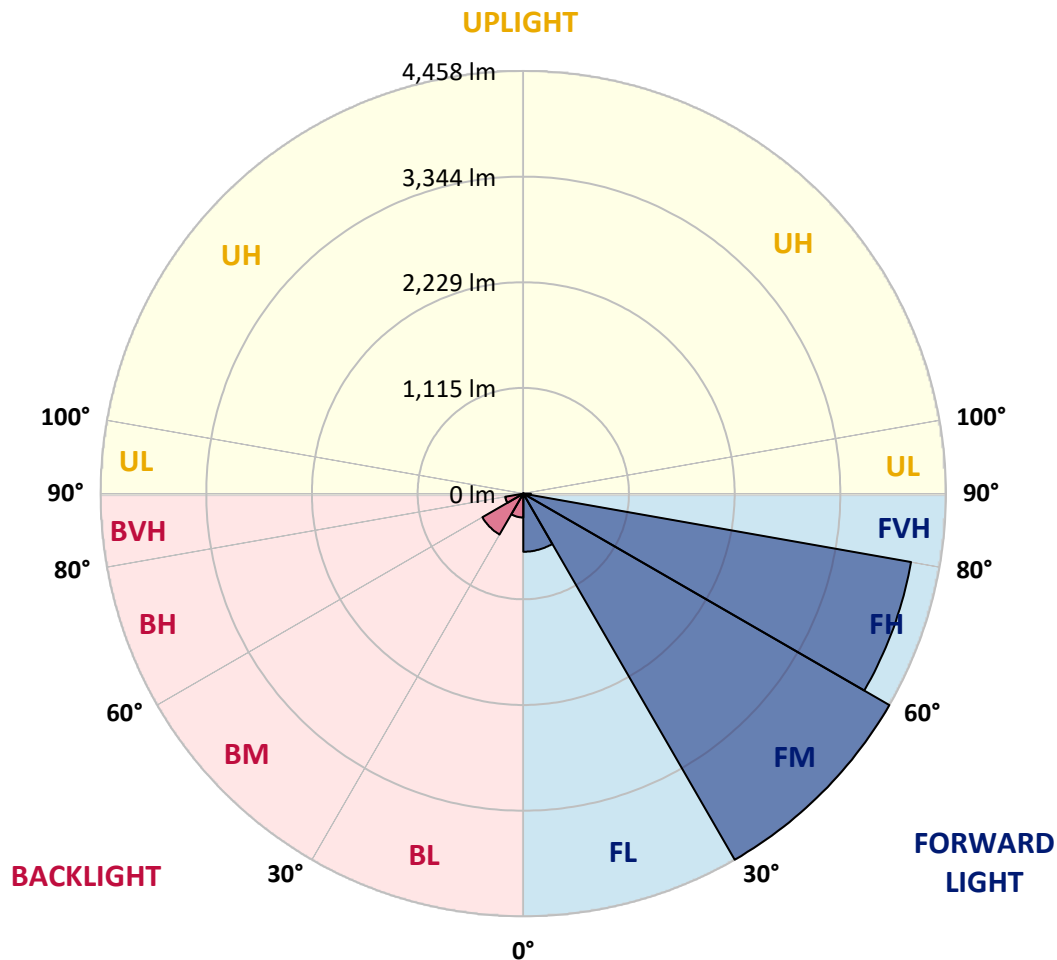
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.0	6.0			
FM (30°-60°)	4458.3	43.5			
FH (60°-80°)	4152.8	40.5			G2/5000
FVH (80°-90°)	80.6	0.8			G1/100
BL (0°-30°)	251.6	2.5	B1/500		
BM (30°-60°)	498.2	4.9	B1/1000		
BH (60°-80°)	193.4	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°	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9
2.5°	1073.7	1069.0	1066.6	1054.1	1044.7	1033.0	1033.0	1018.1	1000.9	982.1	964.8
5°	1193.5	1185.7	1175.5	1164.5	1142.6	1111.3	1111.3	1080.0	1043.9	1011.8	976.6
7.5°	1308.6	1301.6	1284.4	1263.2	1227.2	1194.3	1192.0	1146.5	1103.5	1054.9	1004.8
10°	1409.7	1404.2	1389.3	1348.6	1311.0	1267.9	1267.1	1216.2	1166.1	1106.6	1044.7
12.5°	1480.2	1480.9	1461.4	1422.2	1373.6	1332.9	1329.8	1279.7	1227.2	1163.0	1087.0
15°	1530.3	1530.3	1509.9	1466.1	1422.2	1386.2	1383.0	1339.2	1285.1	1215.4	1133.2
17.5°	1544.4	1549.1	1527.1	1488.0	1452.7	1421.4	1420.6	1383.8	1340.8	1273.4	1180.2
20°	1538.9	1543.6	1526.4	1495.8	1471.5	1453.5	1451.2	1436.3	1396.4	1332.9	1230.3
22.5°	1527.1	1531.8	1519.3	1501.3	1489.6	1495.0	1491.1	1503.6	1482.5	1405.8	1289.8
25°	1529.5	1534.2	1524.8	1514.6	1524.8	1558.5	1568.6	1622.7	1603.9	1498.2	1354.1
27.5°	1603.1	1612.5	1599.2	1603.9	1639.9	1718.2	1737.8	1831.0	1748.0	1615.6	1454.3
30°	1766.8	1760.5	1735.5	1758.2	1883.5	2049.5	2044.0	2029.1	1899.1	1751.1	1573.3
32.5°	1915.6	1910.1	1908.5	2006.4	2233.5	2314.2	2310.3	2166.2	2034.6	1906.2	1690.8
35°	1975.9	1954.7	1950.0	2187.3	2567.2	2460.7	2436.4	2222.6	2199.1	2075.3	1810.6
37.5°	2157.6	2142.7	2069.9	2217.1	2434.0	2398.8	2380.0	2319.7	2374.5	2224.9	1946.1
40°	2531.9	2490.4	2424.6	2280.5	2245.3	2260.2	2279.0	2444.2	2582.0	2429.3	2127.0
42.5°	2997.1	2987.7	2865.5	2596.9	2333.0	2353.4	2377.6	2704.2	2880.4	2737.1	2422.3
45°	3555.5	3568.8	3392.6	3075.4	2729.3	2746.5	2781.7	3088.0	3284.5	3215.6	2886.7
47.5°	4063.0	4052.8	3993.3	3663.6	3344.0	3305.7	3362.8	3580.6	3843.7	3854.7	3463.1
50°	4573.6	4627.6	4539.1	4409.9	4172.6	4092.0	4070.8	4177.3	4578.3	4525.8	4155.4
52.5°	5307.4	5335.6	5169.6	5136.7	5190.7	4929.1	4908.0	4933.8	5292.5	5112.4	4673.8
55°	5768.7	5752.2	5690.4	5947.2	6161.0	5834.5	5807.8	5703.7	5885.4	5526.7	5172.7
57.5°	5914.3	5937.8	6081.9	6546.3	7052.3	6775.0	6726.5	6430.4	6313.0	5912.8	5631.6
60°	5849.3	5892.4	6203.3	6894.1	7595.8	7554.3	7512.8	7015.5	6620.0	6235.4	5953.5
62.5°	5386.5	5446.8	5944.1	6832.2	7779.8	8039.0	7987.3	7380.4	6824.4	6392.1	6009.9
65°	4514.1	4558.7	5272.9	6270.7	7518.2	8205.1	8186.3	7494.7	6856.5	6248.8	5623.8
67.5°	3218.0	3369.9	4031.7	5284.7	6744.5	7921.6	7953.7	7357.7	6555.0	5629.3	4657.4
70°	2022.9	2126.3	2600.8	3783.4	5406.9	6949.7	7055.4	6730.4	5688.8	4388.0	3117.7
72.5°	964.8	1041.6	1379.9	2394.9	3816.3	5468.0	5551.7	5525.1	4399.0	2764.5	1608.6
75°	429.9	458.9	658.6	1222.5	2463.8	3675.3	3892.3	3928.3	2748.9	1352.5	625.7
77.5°	219.3	220.1	308.6	592.1	1230.3	2192.8	2235.9	2362.0	1490.3	596.0	217.7
80°	116.7	124.5	163.7	279.6	638.3	1080.0	1074.5	1181.0	661.0	292.1	72.8
82.5°	52.5	58.0	92.4	146.4	311.7	409.6	441.7	483.2	283.5	186.4	32.1
85°	15.7	18.8	45.4	73.6	112.8	118.3	132.4	170.7	160.5	132.4	16.4
87.5°	2.3	2.3	18.8	20.4	16.4	21.1	21.9	24.3	51.7	48.6	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°	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9	953.9
2.5°	955.4	950.0	930.4	913.9	899.8	891.2	881.0	874.8	871.6	869.3	870.1
5°	959.4	946.0	912.4	885.7	865.4	843.5	828.6	820.0	816.0	809.8	809.8
7.5°	981.3	960.1	913.2	872.4	837.2	807.4	779.2	769.1	762.0	760.4	758.9
10°	1012.6	986.0	921.8	865.4	815.3	774.5	734.6	699.4	671.9	655.5	653.1
12.5°	1051.8	1013.4	935.1	860.7	796.5	724.4	618.7	547.4	499.6	484.8	487.1
15°	1087.8	1046.3	948.4	856.8	762.0	600.7	480.9	399.4	375.1	372.8	373.6
17.5°	1130.9	1081.5	964.1	851.3	667.2	458.9	357.1	335.2	339.9	347.7	346.9
20°	1175.5	1119.1	982.9	818.4	532.5	345.4	315.6	318.0	325.0	332.1	333.6
22.5°	1223.3	1162.2	1004.8	739.3	406.5	300.7	299.2	302.3	309.3	317.2	318.7
25°	1289.1	1216.2	1021.2	635.9	307.8	278.0	281.2	286.6	292.9	301.5	303.1
27.5°	1373.6	1289.1	1029.8	501.2	266.3	257.7	258.4	266.3	274.1	281.9	281.9
30°	1483.3	1376.0	1012.6	379.0	245.9	238.1	234.9	239.6	249.8	257.7	258.4
32.5°	1581.2	1458.2	967.2	289.8	231.0	220.1	212.2	213.0	216.9	221.6	222.4
35°	1679.1	1538.1	889.7	243.6	215.4	202.8	191.1	184.8	181.7	179.3	181.7
37.5°	1804.4	1637.6	786.3	221.6	202.1	186.4	169.9	156.6	145.7	138.6	140.2
40°	1965.7	1775.4	664.1	207.5	189.5	170.7	148.8	131.6	112.8	106.5	103.4
42.5°	2232.0	1984.5	535.7	195.8	177.0	154.3	126.9	103.4	86.1	79.9	81.4
45°	2652.5	2248.4	412.7	183.3	164.5	136.3	106.5	81.4	67.4	64.2	65.8
47.5°	3210.1	2589.9	318.0	169.2	148.8	116.7	83.8	64.2	55.6	54.8	54.0
50°	3734.8	2907.8	265.5	153.5	130.0	97.1	68.9	54.0	48.6	47.8	47.8
52.5°	4209.4	3135.7	216.1	135.5	109.6	79.9	58.0	47.8	43.1	40.7	40.7
55°	4631.5	3284.5	175.4	113.6	86.1	63.4	50.1	43.1	37.6	34.5	33.7
57.5°	4950.3	3302.5	131.6	90.8	64.2	49.3	43.1	37.6	31.3	27.4	25.8
60°	5086.6	3146.7	97.1	68.9	47.8	39.2	34.5	30.5	23.5	19.6	18.8
62.5°	4949.5	2843.6	72.0	52.5	36.8	29.0	24.3	22.7	16.4	11.7	11.0
65°	4458.5	2405.8	57.2	39.9	27.4	21.1	15.7	14.9	10.2	5.5	4.7
67.5°	3571.9	1884.3	45.4	29.8	19.6	14.1	10.2	9.4	5.5	1.6	1.6
70°	2322.8	1204.5	36.8	21.9	12.5	9.4	6.3	4.7	3.1	0.8	0.0
72.5°	1148.9	563.1	29.8	17.2	8.6	4.7	2.3	1.6	2.3	0.0	0.0
75°	445.6	200.5	21.9	11.7	4.7	2.3	1.6	0.0	0.8	0.0	0.0
77.5°	148.0	66.6	13.3	6.3	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	54.8	25.8	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	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	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	4.7	3.1	2.3	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)