

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: P652254

Luminaire Tested: **GALN-SA2B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6929.9 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

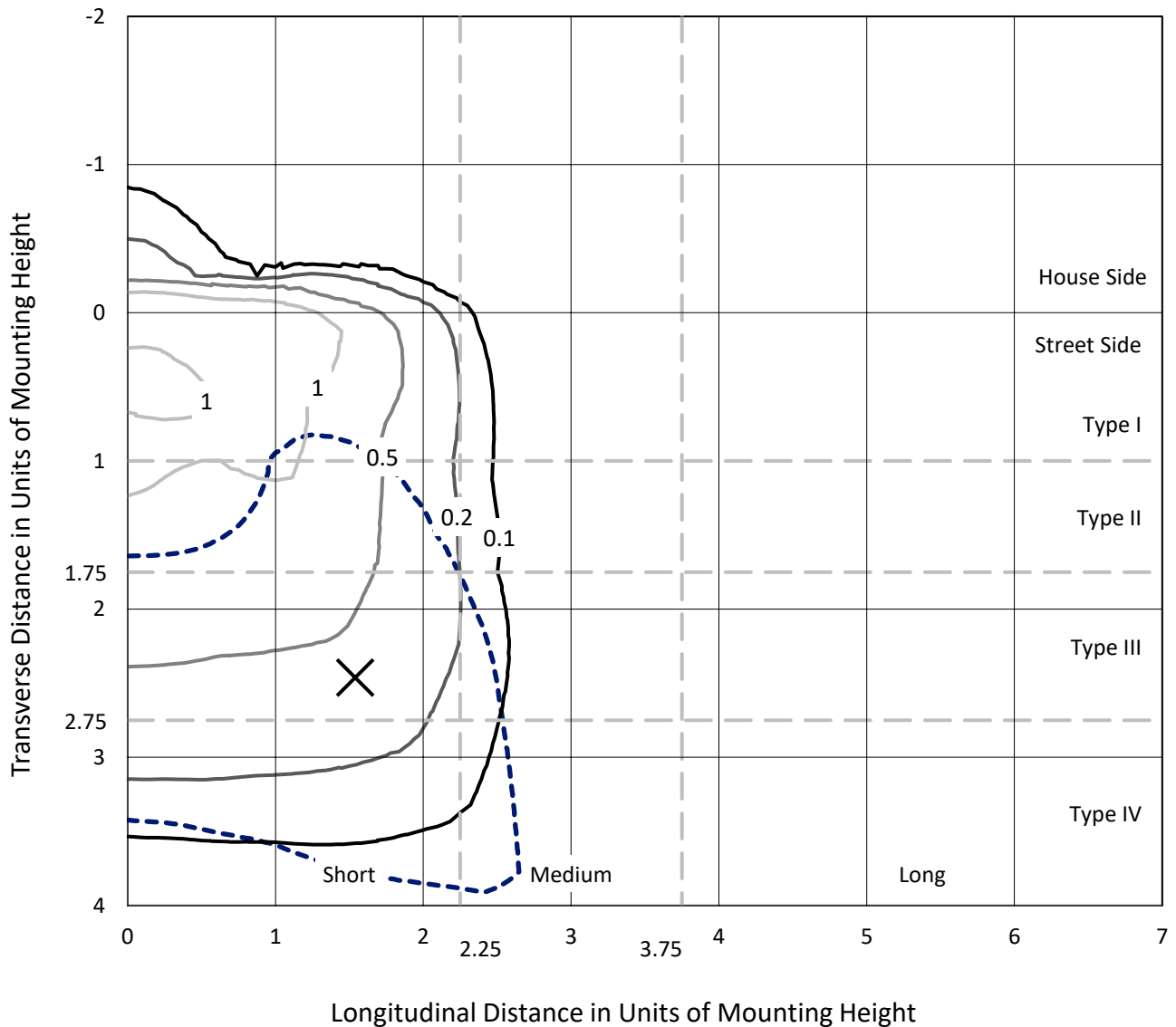
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

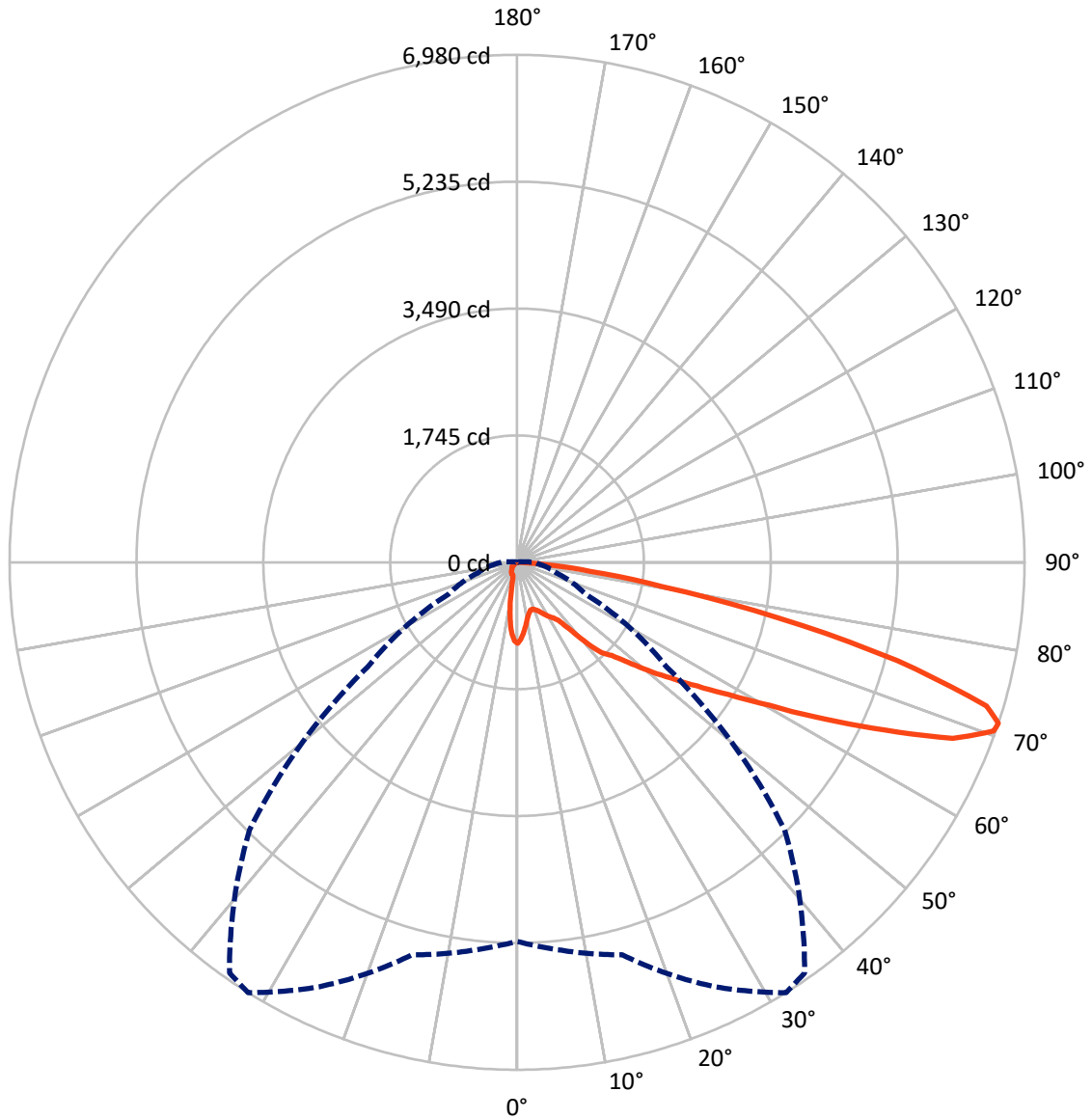
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	580.5	0.0	580.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6349.4	0.0	6349.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6929.9	0.0	6929.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.3
10°-20°	196.7	2.8
20°-30°	306.0	4.4
30°-40°	509.7	7.4
40°-50°	948.2	13.7
50°-60°	1522.3	22.0
60°-70°	2047.6	29.5
70°-80°	1214.9	17.5
80°-90°	93.9	1.4
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°	6929.9	100.0
0°-180°	6929.9	100.0

**Coefficient of Utilization**

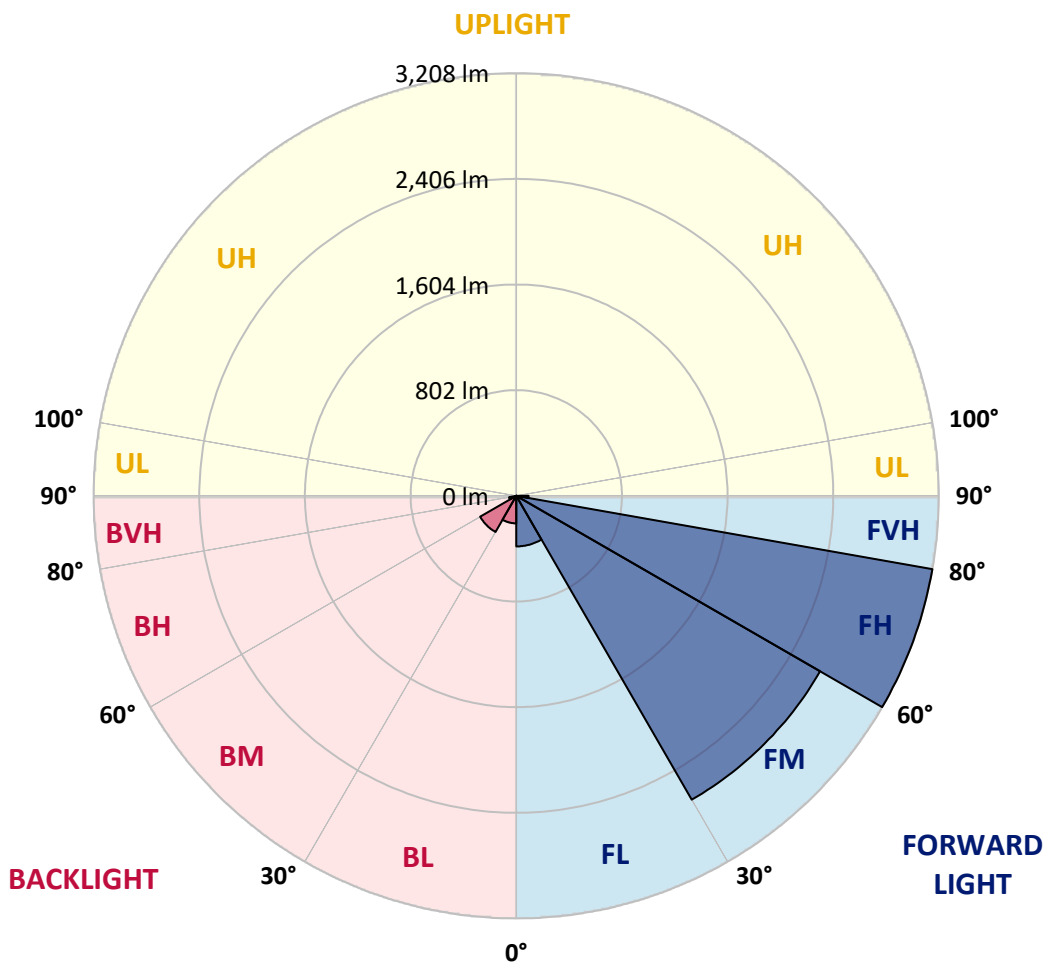


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.1	5.5			
FM (30°-60°)	2663.6	38.4			
FH (60°-80°)	3208.2	46.3			G2/5000
FVH (80°-90°)	93.5	1.3			G1/100
BL (0°-30°)	209.1	3.0	B1/500		
BM (30°-60°)	316.6	4.6	B1/1000		
BH (60°-80°)	54.3	0.8	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4
2.5°	1033.6	1044.2	1042.6	1046.4	1055.4	1059.1	1069.2	1080.3	1095.8	1106.4	1113.4
5°	925.6	933.6	934.6	953.3	962.3	972.4	1002.2	1034.6	1070.8	1099.5	1118.7
7.5°	810.1	814.4	822.9	847.4	870.3	880.4	925.6	982.0	1038.9	1092.6	1127.2
10°	714.9	719.7	735.1	761.2	782.5	795.8	858.6	929.3	1009.1	1088.9	1139.4
12.5°	660.7	663.3	669.2	692.6	719.7	734.1	801.6	882.5	985.1	1090.5	1160.2
15°	657.0	655.9	649.0	658.6	683.1	697.9	763.9	850.6	963.9	1095.8	1184.6
17.5°	676.7	674.0	657.5	657.5	677.7	690.0	747.9	833.6	953.3	1108.0	1219.2
20°	706.9	702.7	675.6	673.5	693.2	705.9	757.5	834.6	955.4	1130.9	1265.5
22.5°	745.3	740.5	699.5	700.6	721.8	734.6	785.2	853.8	968.7	1159.2	1315.0
25°	795.2	790.0	741.5	739.4	761.8	772.9	826.1	887.8	987.2	1194.2	1379.8
27.5°	861.8	850.6	792.6	789.4	813.3	827.7	875.6	933.6	1020.3	1242.7	1467.1
30°	916.5	904.3	849.0	840.5	866.0	877.2	926.6	995.2	1085.1	1327.2	1587.9
32.5°	988.3	970.3	905.3	883.0	910.1	924.5	1000.6	1110.2	1181.4	1416.6	1731.5
35°	1150.1	1138.9	1059.7	981.4	979.8	997.9	1109.6	1226.1	1280.4	1555.9	1927.2
37.5°	1381.4	1373.5	1289.4	1184.6	1154.4	1145.8	1242.1	1353.8	1438.4	1747.4	2154.9
40°	1650.1	1631.5	1554.3	1465.5	1426.2	1401.1	1398.5	1543.7	1644.7	2007.6	2392.1
42.5°	1842.6	1808.7	1715.0	1708.6	1700.1	1674.0	1598.5	1821.4	1911.3	2287.4	2645.9
45°	2044.8	1993.2	1853.8	1829.9	1826.7	1825.1	1900.7	2150.1	2201.7	2590.6	2906.6
47.5°	2201.7	2160.8	2046.4	2035.7	2049.1	2085.3	2300.1	2499.1	2488.4	2860.8	3125.2
50°	2410.8	2379.9	2252.8	2273.0	2341.6	2400.6	2750.7	2879.4	2724.1	3073.6	3284.3
52.5°	2657.6	2600.7	2482.6	2537.4	2642.7	2741.2	3228.9	3212.5	2889.5	3233.7	3402.9
55°	2871.4	2831.0	2790.6	2847.5	3005.0	3127.8	3660.9	3461.9	3009.8	3362.4	3455.0
57.5°	3233.1	3223.6	3182.1	3240.1	3431.0	3558.7	4047.6	3655.5	3086.9	3429.4	3393.9
60°	3768.3	3752.9	3675.8	3749.7	3998.6	4199.2	4404.0	3829.5	3104.5	3403.4	3217.8
62.5°	4412.0	4359.3	4293.3	4402.4	4743.9	4832.2	4739.6	3932.7	3039.0	3196.0	2793.2
65°	5013.0	4958.8	4960.4	5190.2	5562.0	5622.2	5131.1	3917.2	2847.5	2676.2	2060.2
67.5°	5473.2	5464.1	5529.1	5977.5	6463.7	6422.2	5481.1	3686.4	2280.0	1734.6	1094.7
70°	5496.6	5514.2	5700.3	6457.3	6950.9	6885.0	5451.4	2996.5	1421.4	797.9	431.4
71°	5213.6	5331.7	5589.1	6442.4	6979.6	6894.0	5200.3	2509.7	1042.6	556.4	311.2
72.5°	4442.8	4505.1	5061.5	6063.1	6752.6	6569.6	4563.6	1759.1	667.6	340.4	178.7
75°	2447.0	2600.1	3389.6	4756.7	5400.8	5240.2	2974.1	835.7	333.0	186.2	73.9
77.5°	1165.0	1135.2	1653.8	2828.9	3661.9	3653.4	1498.5	371.3	194.2	126.1	37.3
80°	333.0	374.5	633.0	1344.8	2033.1	2055.4	575.6	179.3	134.6	98.4	19.2
82.5°	100.5	102.7	232.5	594.8	1011.2	953.3	216.0	91.5	96.8	78.2	11.2
85°	17.6	21.8	68.6	209.6	385.7	292.6	54.2	43.6	63.8	51.6	6.4
87.5°	1.1	1.6	22.9	24.0	34.1	19.7	9.6	6.4	13.8	13.8	3.7
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°	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4	1114.4
2.5°	1118.1	1121.3	1119.2	1114.4	1106.4	1096.8	1084.1	1073.5	1064.5	1059.7	1065.5
5°	1125.1	1129.3	1118.7	1094.7	1058.6	1019.2	974.6	940.0	912.8	904.3	901.1
7.5°	1135.7	1138.4	1109.6	1056.5	979.8	886.8	805.3	736.7	683.6	667.6	644.2
10°	1149.6	1148.0	1093.7	994.7	860.2	720.2	594.2	500.6	429.8	404.3	402.2
12.5°	1170.8	1162.3	1073.5	910.7	717.6	534.6	378.8	296.3	251.6	236.7	233.5
15°	1197.4	1177.2	1041.6	812.3	549.5	345.2	233.5	208.5	202.7	201.6	200.6
17.5°	1228.8	1196.9	999.5	691.6	386.2	224.0	195.2	194.7	195.2	194.2	193.6
20°	1271.3	1217.6	949.5	548.4	255.3	188.8	186.2	186.2	186.7	186.2	186.2
22.5°	1316.6	1242.1	887.8	418.6	192.6	179.3	178.7	179.8	180.9	180.3	180.3
25°	1372.4	1274.0	806.4	286.7	172.3	171.3	171.8	173.9	176.1	176.6	176.1
27.5°	1453.2	1313.4	719.2	197.4	158.0	159.0	164.3	169.7	172.9	173.4	173.4
30°	1544.2	1357.0	605.4	160.1	146.2	146.2	152.6	162.7	169.7	170.7	171.3
32.5°	1661.2	1407.5	479.3	144.1	135.1	134.1	139.9	152.1	164.9	168.6	168.6
35°	1806.0	1467.1	356.4	134.1	127.2	124.5	127.7	137.8	154.2	164.9	165.9
37.5°	1975.7	1523.5	260.6	125.0	119.7	116.0	118.1	126.1	139.4	155.3	159.6
40°	2132.6	1573.5	194.7	117.6	112.3	109.6	111.2	114.9	126.1	141.0	143.6
42.5°	2303.8	1612.4	154.8	109.6	104.8	103.7	103.7	105.3	112.8	121.3	121.8
45°	2474.6	1626.2	129.8	100.0	96.8	97.9	97.4	96.3	99.5	98.4	98.4
47.5°	2596.4	1609.7	107.5	91.0	91.0	92.6	89.9	86.2	84.6	78.2	78.7
50°	2679.9	1549.5	88.3	80.3	84.6	86.7	81.4	75.5	69.7	62.7	61.1
52.5°	2714.5	1442.7	72.3	66.5	75.0	77.6	71.3	64.3	55.3	49.5	47.9
55°	2692.2	1310.7	60.1	54.2	63.3	66.5	60.1	52.1	42.0	35.7	34.6
57.5°	2593.7	1153.3	51.0	43.1	50.5	52.6	48.4	39.9	29.8	23.4	23.4
60°	2423.5	990.4	41.5	34.1	37.8	41.0	36.7	28.8	20.2	14.4	13.3
62.5°	2078.3	804.3	33.5	26.6	26.6	29.3	25.6	20.8	12.8	7.5	6.9
65°	1500.6	551.6	26.6	19.7	19.2	19.2	16.0	13.8	7.5	3.2	2.1
67.5°	815.4	311.2	21.3	14.9	13.3	12.8	10.1	8.0	3.2	0.5	0.0
70°	320.8	119.7	16.5	10.1	8.5	8.0	5.3	3.7	2.1	0.0	0.0
71°	217.6	82.4	14.4	8.5	6.9	5.9	4.3	3.2	1.6	0.0	0.0
72.5°	124.5	51.0	11.2	6.4	5.3	4.3	3.2	2.1	1.6	0.0	0.0
75°	54.2	26.1	6.9	4.8	3.7	2.7	2.1	1.6	0.5	0.0	0.0
77.5°	27.7	14.4	4.8	3.7	2.1	1.6	1.1	0.5	0.0	0.0	0.0
80°	15.4	7.5	3.2	2.1	1.6	1.1	0.5	0.5	0.0	0.0	0.0
82.5°	8.5	4.3	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.1	0.0	0.0	0.0	0.0	0.5	0.5	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)