

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: P451433

Luminaire Tested: **GALN-SA2B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451433  
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-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 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: 8240 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

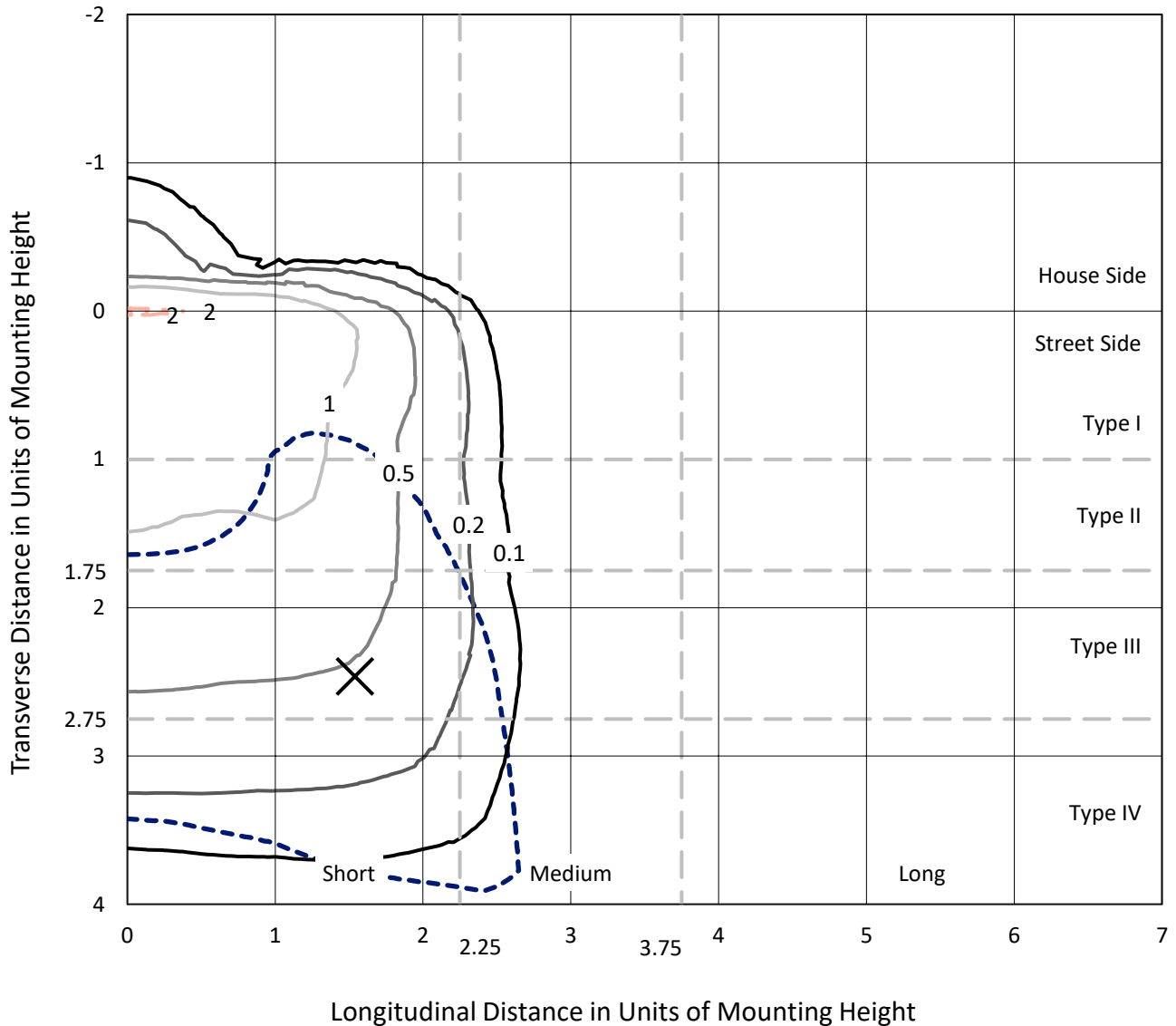
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

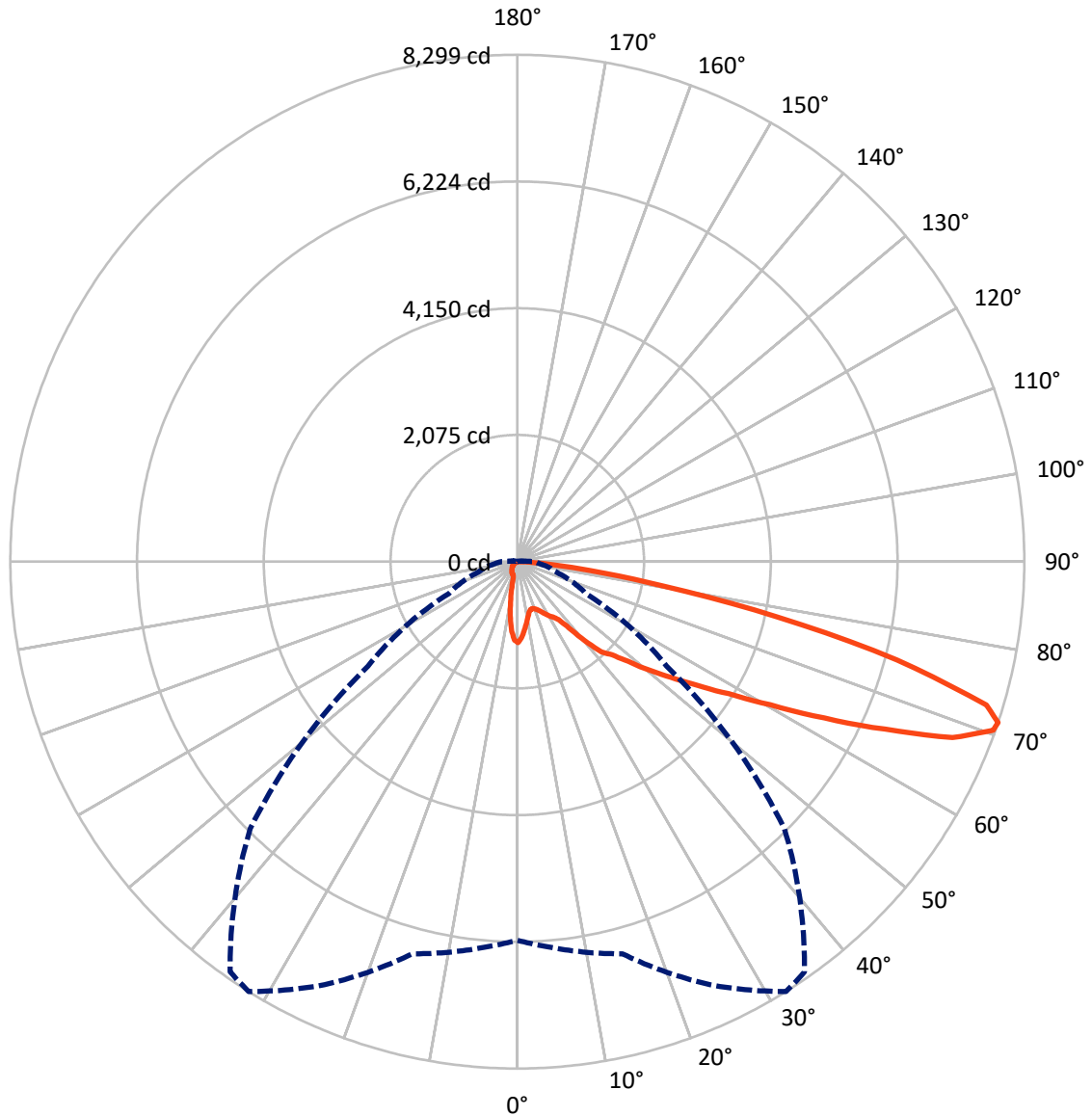
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	690.2	0.0	690.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7549.8	0.0	7549.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	8240.0	0.0	8240.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	1.3
10°-20°	233.9	2.8
20°-30°	363.8	4.4
30°-40°	606.1	7.4
40°-50°	1127.4	13.7
50°-60°	1810.1	22.0
60°-70°	2434.7	29.5
70°-80°	1444.6	17.5
80°-90°	111.7	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°	8240.0	100.0
0°-180°	8240.0	100.0

**Coefficient of Utilization**



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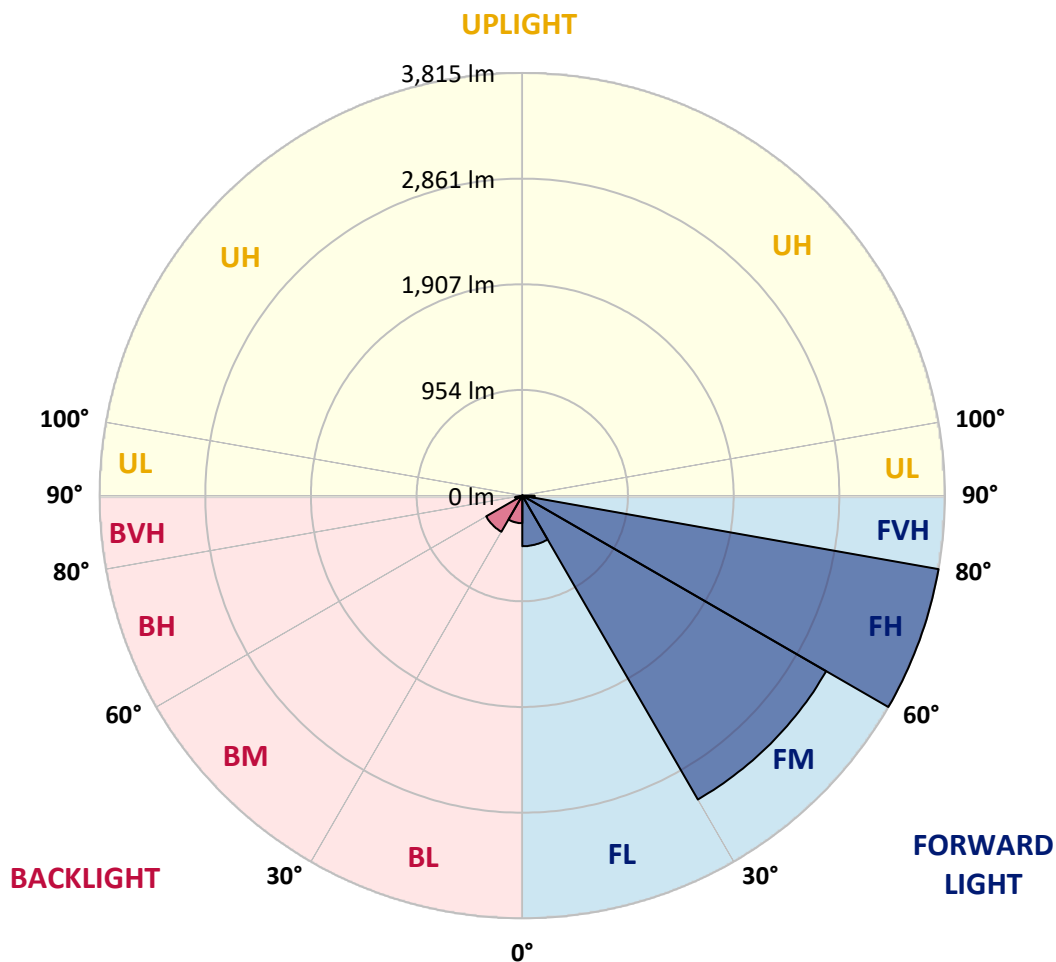
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	456.7	5.5			
FM	(30°-60°)	3167.2	38.4			
FH	(60°-80°)	3814.7	46.3			G2/5000
FVH	(80°-90°)	111.2	1.3			G2/225
BL	(0°-30°)	248.7	3.0	B1/500		
BM	(30°-60°)	376.5	4.6	B1/1000		
BH	(60°-80°)	64.5	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°	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1229.0	1241.6	1239.7	1244.2	1254.9	1259.3	1271.4	1284.6	1303.0	1315.6	1323.9
5°	1100.6	1110.1	1111.3	1133.5	1144.2	1156.2	1191.7	1230.2	1273.3	1307.4	1330.2
7.5°	963.3	968.4	978.5	1007.6	1034.8	1046.8	1100.6	1167.6	1235.3	1299.2	1340.3
10°	850.1	855.8	874.1	905.1	930.4	946.2	1020.9	1105.0	1199.9	1294.8	1354.8
12.5°	785.6	788.7	795.7	823.5	855.8	872.9	953.2	1049.3	1171.4	1296.7	1379.5
15°	781.2	779.9	771.7	783.1	812.2	829.9	908.3	1011.4	1146.1	1303.0	1408.6
17.5°	804.6	801.4	781.8	781.8	805.8	820.4	889.3	991.2	1133.5	1317.5	1449.7
20°	840.6	835.6	803.3	800.8	824.2	839.3	900.7	992.4	1136.0	1344.7	1504.8
22.5°	886.2	880.5	831.8	833.0	858.3	873.5	933.6	1015.2	1151.8	1378.3	1563.6
25°	945.6	939.3	881.7	879.2	905.8	919.0	982.3	1055.7	1173.9	1420.0	1640.7
27.5°	1024.7	1011.4	942.4	938.7	967.1	984.2	1041.1	1110.1	1213.2	1477.6	1744.5
30°	1089.8	1075.3	1009.5	999.4	1029.7	1043.0	1101.8	1183.4	1290.3	1578.1	1888.1
32.5°	1175.2	1153.7	1076.5	1050.0	1082.2	1099.3	1189.8	1320.1	1404.8	1684.4	2058.8
35°	1367.5	1354.2	1260.0	1167.0	1165.1	1186.6	1319.4	1457.9	1522.5	1850.1	2291.6
37.5°	1642.6	1633.2	1533.2	1408.6	1372.6	1362.4	1476.9	1609.8	1710.3	2077.8	2562.3
40°	1962.1	1939.9	1848.2	1742.6	1695.8	1666.0	1662.9	1835.6	1955.7	2387.1	2844.4
42.5°	2191.0	2150.6	2039.2	2031.6	2021.5	1990.5	1900.7	2165.7	2272.6	2719.8	3146.1
45°	2431.4	2370.0	2204.3	2175.9	2172.1	2170.2	2260.0	2556.6	2618.0	3080.4	3456.1
47.5°	2618.0	2569.3	2433.3	2420.6	2436.5	2479.5	2735.0	2971.6	2958.9	3401.7	3716.0
50°	2866.6	2829.9	2678.7	2702.7	2784.3	2854.5	3270.7	3423.8	3239.1	3654.7	3905.2
52.5°	3160.0	3092.4	2952.0	3017.1	3142.3	3259.4	3839.4	3819.8	3435.8	3845.1	4046.2
55°	3414.3	3366.2	3318.2	3385.9	3573.1	3719.2	4353.0	4116.4	3578.8	3998.1	4108.2
57.5°	3844.4	3833.0	3783.7	3852.7	4079.7	4231.5	4812.8	4346.6	3670.5	4077.8	4035.5
60°	4480.7	4462.4	4370.7	4458.6	4754.6	4993.1	5236.6	4553.5	3691.4	4046.8	3826.1
62.5°	5246.1	5183.5	5105.0	5234.7	5640.8	5745.8	5635.7	4676.2	3613.6	3800.2	3321.3
65°	5960.8	5896.3	5898.2	6171.5	6613.6	6685.1	6101.2	4657.8	3385.9	3182.2	2449.7
67.5°	6508.0	6497.2	6574.4	7107.6	7685.7	7636.4	6517.4	4383.3	2711.0	2062.6	1301.7
70°	6535.8	6556.7	6778.0	7678.1	8265.1	8186.7	6482.0	3563.0	1690.1	948.8	513.0
71°	6199.3	6339.7	6645.8	7660.4	8299.2	8197.4	6183.5	2984.2	1239.7	661.6	370.0
72.5°	5282.8	5356.8	6018.4	7209.4	8029.2	7811.6	5426.4	2091.7	793.8	404.8	212.5
75°	2909.6	3091.7	4030.4	5656.0	6421.9	6230.9	3536.4	993.7	396.0	221.4	87.9
77.5°	1385.2	1349.8	1966.5	3363.7	4354.2	4344.1	1781.8	441.5	230.9	149.9	44.3
80°	396.0	445.3	752.7	1599.0	2417.5	2444.0	684.4	213.2	160.0	117.0	22.8
82.5°	119.5	122.1	276.4	707.2	1202.4	1133.5	256.8	108.8	115.1	93.0	13.3
85°	20.9	25.9	81.6	249.2	458.6	347.9	64.5	51.9	75.9	61.4	7.6
87.5°	1.3	1.9	27.2	28.5	40.5	23.4	11.4	7.6	16.4	16.4	4.4
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°	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1329.5	1333.3	1330.8	1325.1	1315.6	1304.2	1289.1	1276.4	1265.7	1260.0	1266.9
5°	1337.8	1342.8	1330.2	1301.7	1258.7	1211.9	1158.8	1117.7	1085.4	1075.3	1071.5
7.5°	1350.4	1353.6	1319.4	1256.2	1165.1	1054.4	957.6	876.0	812.8	793.8	766.0
10°	1366.9	1365.0	1300.5	1182.8	1022.8	856.4	706.5	595.2	511.1	480.7	478.2
12.5°	1392.2	1382.0	1276.4	1082.9	853.3	635.7	450.4	352.3	299.2	281.5	277.7
15°	1423.8	1399.8	1238.5	965.9	653.4	410.5	277.7	247.9	241.0	239.7	238.5
17.5°	1461.1	1423.2	1188.5	822.3	459.2	266.3	232.1	231.5	232.1	230.9	230.2
20°	1511.7	1447.8	1129.0	652.1	303.6	224.5	221.4	221.4	222.0	221.4	221.4
22.5°	1565.5	1476.9	1055.7	497.8	229.0	213.2	212.5	213.8	215.1	214.4	214.4
25°	1631.9	1514.9	958.9	340.9	204.9	203.7	204.3	206.8	209.4	210.0	209.4
27.5°	1728.0	1561.7	855.2	234.7	187.9	189.1	195.4	201.8	205.6	206.2	206.2
30°	1836.2	1613.5	719.8	190.4	173.9	173.9	181.5	193.5	201.8	203.0	203.7
32.5°	1975.3	1673.6	569.9	171.4	160.7	159.4	166.4	180.9	196.1	200.5	200.5
35°	2147.4	1744.5	423.8	159.4	151.2	148.0	151.8	163.8	183.4	196.1	197.3
37.5°	2349.2	1811.5	309.9	148.6	142.3	137.9	140.4	149.9	165.7	184.7	189.8
40°	2535.8	1871.0	231.5	139.8	133.5	130.3	132.2	136.6	149.9	167.6	170.8
42.5°	2739.4	1917.2	184.1	130.3	124.6	123.3	123.3	125.2	134.1	144.2	144.8
45°	2942.5	1933.6	154.3	118.9	115.1	116.4	115.8	114.5	118.3	117.0	117.0
47.5°	3087.3	1914.0	127.8	108.2	108.2	110.1	106.9	102.5	100.6	93.0	93.6
50°	3186.6	1842.5	105.0	95.5	100.6	103.1	96.8	89.8	82.9	74.6	72.7
52.5°	3227.7	1715.4	86.0	79.1	89.2	92.3	84.8	76.5	65.8	58.8	56.9
55°	3201.2	1558.5	71.5	64.5	75.3	79.1	71.5	62.0	50.0	42.4	41.1
57.5°	3084.1	1371.3	60.7	51.2	60.1	62.6	57.6	47.4	35.4	27.8	27.8
60°	2881.7	1177.7	49.3	40.5	44.9	48.7	43.6	34.2	24.0	17.1	15.8
62.5°	2471.2	956.4	39.8	31.6	31.6	34.8	30.4	24.7	15.2	8.9	8.2
65°	1784.3	655.9	31.6	23.4	22.8	22.8	19.0	16.4	8.9	3.8	2.5
67.5°	969.6	370.0	25.3	17.7	15.8	15.2	12.0	9.5	3.8	0.6	0.0
70°	381.4	142.3	19.6	12.0	10.1	9.5	6.3	4.4	2.5	0.0	0.0
71°	258.7	98.0	17.1	10.1	8.2	7.0	5.1	3.8	1.9	0.0	0.0
72.5°	148.0	60.7	13.3	7.6	6.3	5.1	3.8	2.5	1.9	0.0	0.0
75°	64.5	31.0	8.2	5.7	4.4	3.2	2.5	1.9	0.6	0.0	0.0
77.5°	32.9	17.1	5.7	4.4	2.5	1.9	1.3	0.6	0.0	0.0	0.0
80°	18.3	8.9	3.8	2.5	1.9	1.3	0.6	0.6	0.0	0.0	0.0
82.5°	10.1	5.1	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.3	0.0	0.0	0.0	0.0	0.6	0.6	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)