

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: P450505

Luminaire Tested: **GALN-SA1B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450505  
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-SA1B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4146 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

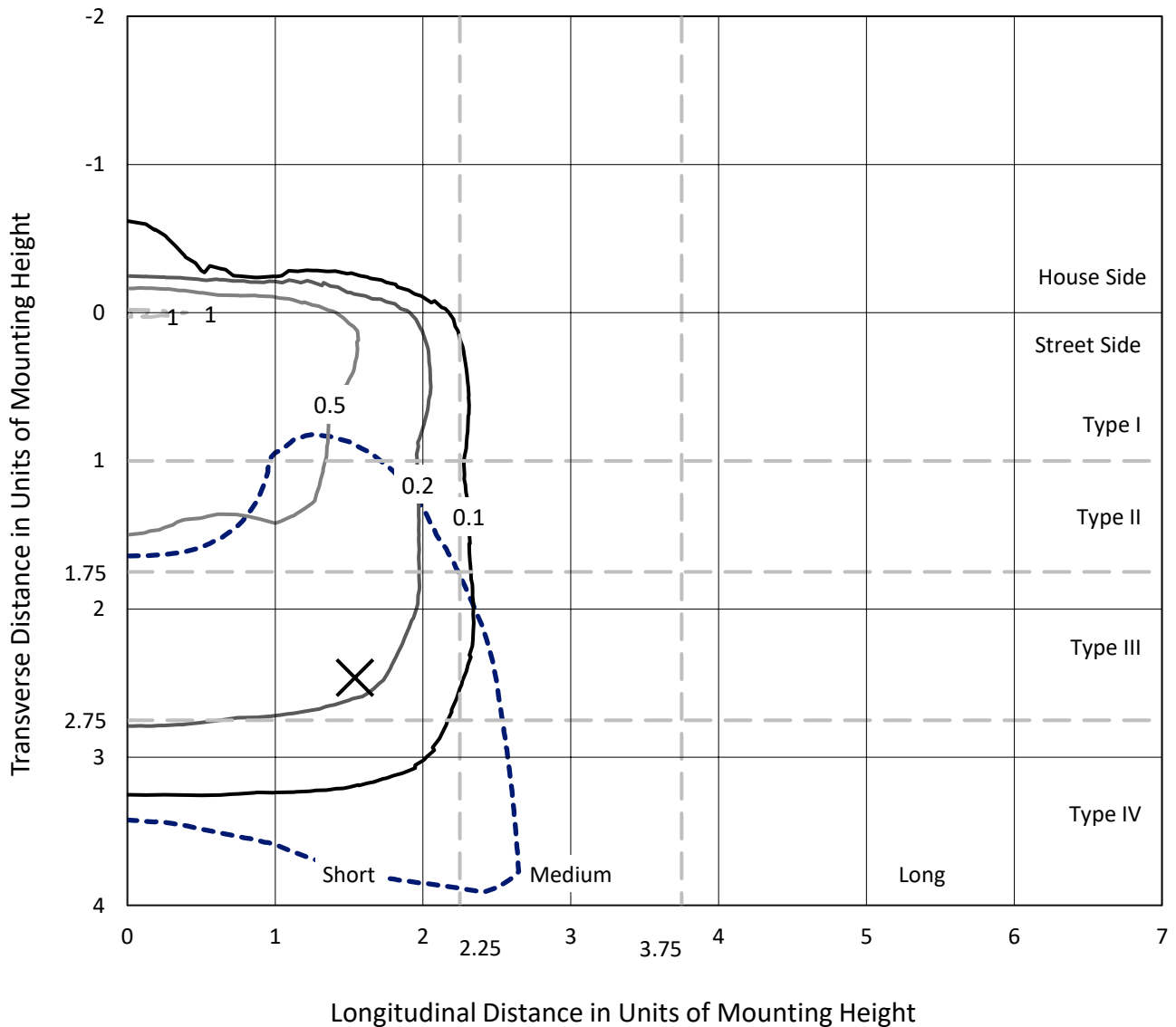
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

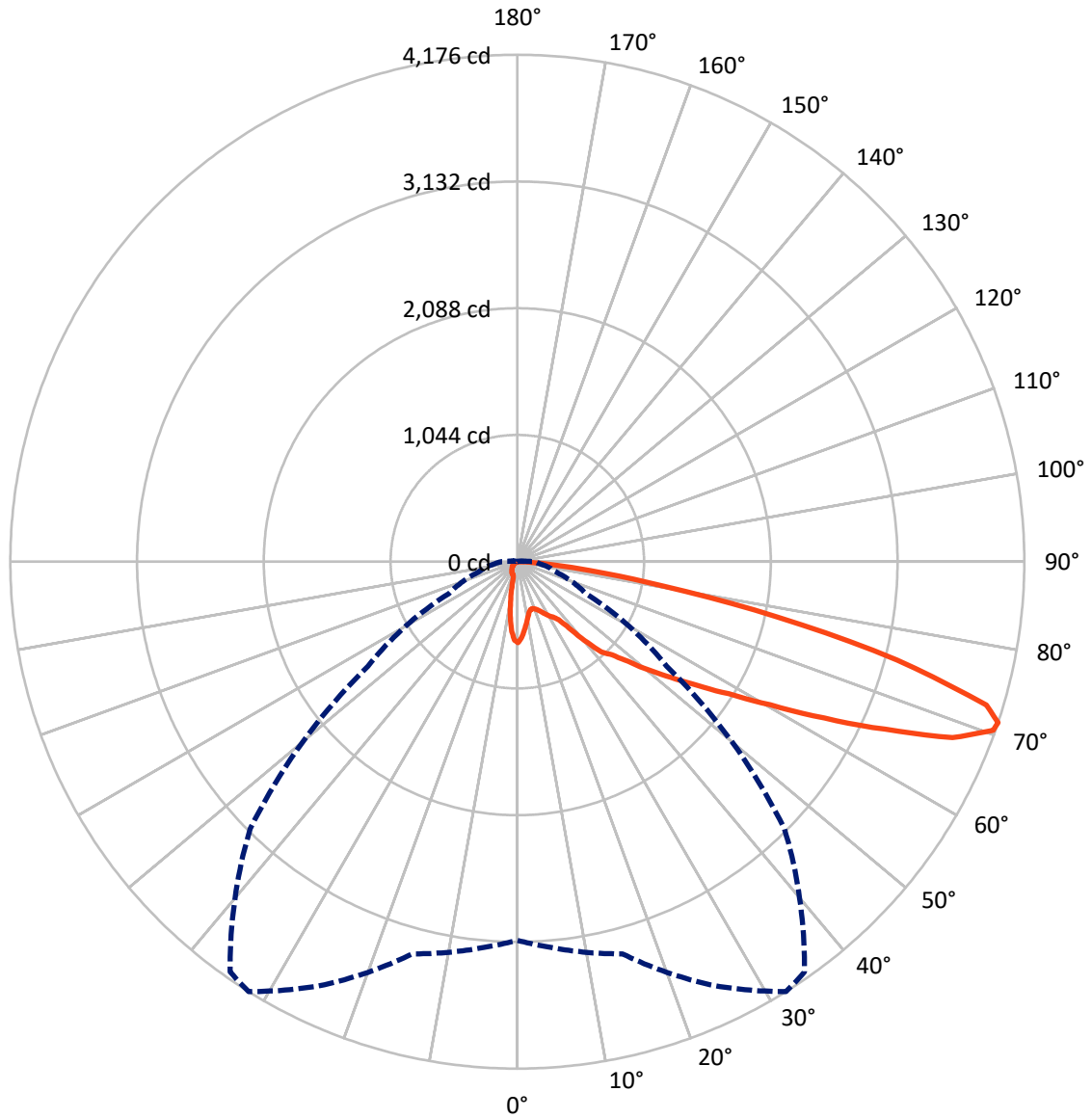
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	347.3	0.0	347.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3798.7	0.0	3798.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4146.0	0.0	4146.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.2	1.3
10°-20°	117.7	2.8
20°-30°	183.0	4.4
30°-40°	305.0	7.4
40°-50°	567.3	13.7
50°-60°	910.8	22.0
60°-70°	1225.0	29.5
70°-80°	726.8	17.5
80°-90°	56.2	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°	4146.0	100.0
0°-180°	4146.0	100.0

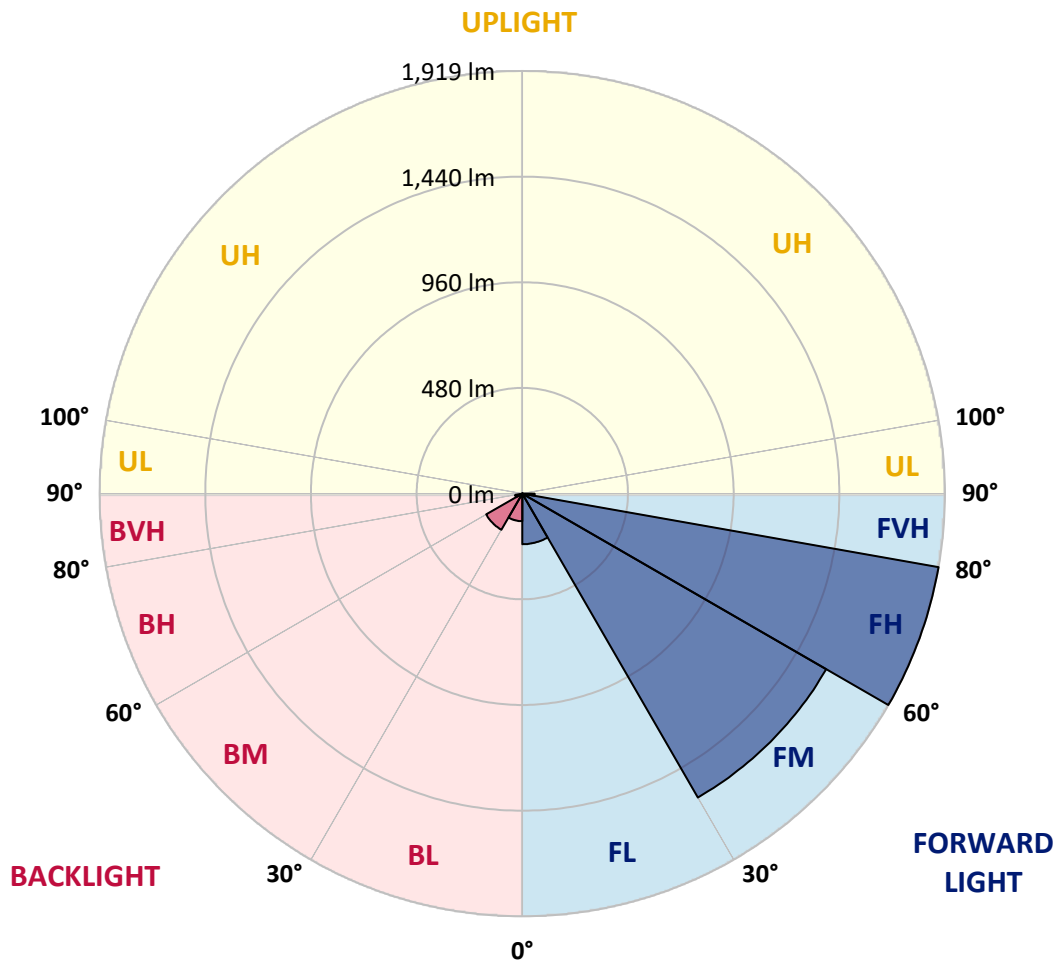


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.8	5.5			
FM	(30°-60°)	1593.6	38.4			
FH	(60°-80°)	1919.4	46.3			G2/5000
FVH	(80°-90°)	56.0	1.3			G1/100
BL	(0°-30°)	125.1	3.0	B1/500		
BM	(30°-60°)	189.5	4.6	B0/220		
BH	(60°-80°)	32.5	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
2.5°	618.4	624.7	623.8	626.0	631.4	633.6	639.7	646.4	655.6	662.0	666.1
5°	553.8	558.5	559.2	570.3	575.7	581.8	599.6	619.0	640.6	657.8	669.3
7.5°	484.7	487.2	492.3	507.0	520.7	526.7	553.8	587.5	621.5	653.7	674.4
10°	427.7	430.6	439.8	455.4	468.2	476.1	513.7	556.0	603.7	651.5	681.7
12.5°	395.3	396.9	400.4	414.4	430.6	439.2	479.6	528.0	589.4	652.4	694.1
15°	393.0	392.4	388.3	394.0	408.6	417.5	457.0	508.9	576.7	655.6	708.8
17.5°	404.8	403.2	393.4	393.4	405.5	412.8	447.5	498.7	570.3	662.9	729.4
20°	423.0	420.4	404.2	402.9	414.7	422.3	453.2	499.3	571.6	676.6	757.1
22.5°	445.9	443.0	418.5	419.1	431.9	439.5	469.7	510.8	579.5	693.5	786.7
25°	475.8	472.6	443.6	442.4	455.7	462.4	494.2	531.2	590.7	714.5	825.6
27.5°	515.6	508.9	474.2	472.3	486.6	495.2	523.8	558.5	610.4	743.4	877.7
30°	548.4	541.0	507.9	502.8	518.1	524.8	554.4	595.5	649.2	794.0	950.0
32.5°	591.3	580.5	541.7	528.3	544.5	553.1	598.6	664.2	706.8	847.5	1035.9
35°	688.1	681.4	634.0	587.2	586.2	597.0	663.9	733.6	766.0	930.9	1153.0
37.5°	826.5	821.7	771.4	708.8	690.6	685.5	743.1	810.0	860.6	1045.5	1289.2
40°	987.2	976.1	929.9	876.8	853.2	838.3	836.7	923.6	984.0	1201.1	1431.2
42.5°	1102.4	1082.1	1026.1	1022.2	1017.1	1001.5	956.4	1089.7	1143.5	1368.5	1583.0
45°	1223.4	1192.5	1109.1	1094.8	1092.9	1091.9	1137.1	1286.4	1317.3	1549.9	1738.9
47.5°	1317.3	1292.7	1224.3	1218.0	1225.9	1247.6	1376.1	1495.2	1488.8	1711.6	1869.7
50°	1442.3	1423.9	1347.8	1359.9	1401.0	1436.3	1645.7	1722.7	1629.8	1838.9	1964.9
52.5°	1590.0	1555.9	1485.3	1518.1	1581.1	1640.0	1931.8	1921.9	1728.8	1934.7	2035.9
55°	1717.9	1693.7	1669.6	1703.6	1797.8	1871.3	2190.2	2071.2	1800.7	2011.7	2067.1
57.5°	1934.3	1928.6	1903.8	1938.5	2052.7	2129.1	2421.6	2187.0	1846.8	2051.8	2030.5
60°	2254.5	2245.3	2199.1	2243.4	2392.3	2512.3	2634.8	2291.1	1857.3	2036.2	1925.1
62.5°	2639.6	2608.1	2568.6	2633.9	2838.2	2891.0	2835.6	2352.8	1818.2	1912.1	1671.2
65°	2999.2	2966.8	2967.7	3105.2	3327.7	3363.6	3069.9	2343.6	1703.6	1601.1	1232.6
67.5°	3274.5	3269.1	3307.9	3576.2	3867.1	3842.3	3279.3	2205.5	1364.0	1037.8	655.0
70°	3288.5	3299.0	3410.4	3863.3	4158.6	4119.2	3261.5	1792.7	850.4	477.4	258.1
71°	3119.2	3189.9	3343.9	3854.4	4175.8	4124.6	3111.2	1501.5	623.8	332.9	186.2
72.5°	2658.1	2695.3	3028.2	3627.5	4039.9	3930.4	2730.3	1052.5	399.4	203.7	106.9
75°	1464.0	1555.6	2027.9	2845.8	3231.2	3135.1	1779.4	500.0	199.2	111.4	44.2
77.5°	697.0	679.2	989.5	1692.5	2190.9	2185.8	896.5	222.1	116.2	75.4	22.3
80°	199.2	224.1	378.7	804.5	1216.4	1229.7	344.4	107.3	80.5	58.9	11.5
82.5°	60.1	61.4	139.1	355.8	605.0	570.3	129.2	54.7	57.9	46.8	6.7
85°	10.5	13.0	41.1	125.4	230.7	175.0	32.5	26.1	38.2	30.9	3.8
87.5°	0.6	1.0	13.7	14.3	20.4	11.8	5.7	3.8	8.3	8.3	2.2
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°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
2.5°	669.0	670.9	669.6	666.7	662.0	656.2	648.6	642.2	636.8	634.0	637.5
5°	673.1	675.7	669.3	655.0	633.3	609.8	583.0	562.4	546.1	541.0	539.1
7.5°	679.5	681.1	663.9	632.1	586.2	530.5	481.8	440.8	409.0	399.4	385.4
10°	687.7	686.8	654.3	595.1	514.6	430.9	355.5	299.5	257.1	241.9	240.6
12.5°	700.5	695.4	642.2	544.9	429.3	319.8	226.6	177.3	150.5	141.6	139.7
15°	716.4	704.3	623.1	486.0	328.8	206.5	139.7	124.8	121.3	120.6	120.0
17.5°	735.2	716.1	598.0	413.7	231.1	134.0	116.8	116.5	116.8	116.2	115.8
20°	760.6	728.5	568.1	328.1	152.8	113.0	111.4	111.4	111.7	111.4	111.4
22.5°	787.7	743.1	531.2	250.5	115.2	107.3	106.9	107.6	108.2	107.9	107.9
25°	821.1	762.2	482.5	171.5	103.1	102.5	102.8	104.1	105.3	105.7	105.3
27.5°	869.5	785.8	430.3	118.1	94.5	95.2	98.3	101.5	103.4	103.8	103.8
30°	923.9	811.9	362.2	95.8	87.5	87.5	91.3	97.4	101.5	102.2	102.5
32.5°	993.9	842.1	286.7	86.2	80.8	80.2	83.7	91.0	98.7	100.9	100.9
35°	1080.5	877.7	213.2	80.2	76.1	74.5	76.4	82.4	92.3	98.7	99.3
37.5°	1182.0	911.5	155.9	74.8	71.6	69.4	70.7	75.4	83.4	92.9	95.5
40°	1275.9	941.4	116.5	70.3	67.2	65.6	66.5	68.7	75.4	84.3	85.9
42.5°	1378.4	964.6	92.6	65.6	62.7	62.1	62.1	63.0	67.5	72.6	72.9
45°	1480.5	972.9	77.7	59.8	57.9	58.6	58.2	57.6	59.5	58.9	58.9
47.5°	1553.4	963.0	64.3	54.4	54.4	55.4	53.8	51.6	50.6	46.8	47.1
50°	1603.4	927.1	52.8	48.1	50.6	51.9	48.7	45.2	41.7	37.6	36.6
52.5°	1624.0	863.1	43.3	39.8	44.9	46.5	42.6	38.5	33.1	29.6	28.6
55°	1610.7	784.2	36.0	32.5	37.9	39.8	36.0	31.2	25.1	21.3	20.7
57.5°	1551.8	690.0	30.6	25.8	30.2	31.5	29.0	23.9	17.8	14.0	14.0
60°	1450.0	592.6	24.8	20.4	22.6	24.5	22.0	17.2	12.1	8.6	8.0
62.5°	1243.4	481.2	20.0	15.9	15.9	17.5	15.3	12.4	7.6	4.5	4.1
65°	897.8	330.0	15.9	11.8	11.5	11.5	9.5	8.3	4.5	1.9	1.3
67.5°	487.9	186.2	12.7	8.9	8.0	7.6	6.0	4.8	1.9	0.3	0.0
70°	191.9	71.6	9.9	6.0	5.1	4.8	3.2	2.2	1.3	0.0	0.0
71°	130.2	49.3	8.6	5.1	4.1	3.5	2.5	1.9	1.0	0.0	0.0
72.5°	74.5	30.6	6.7	3.8	3.2	2.5	1.9	1.3	1.0	0.0	0.0
75°	32.5	15.6	4.1	2.9	2.2	1.6	1.3	1.0	0.3	0.0	0.0
77.5°	16.5	8.6	2.9	2.2	1.3	1.0	0.6	0.3	0.0	0.0	0.0
80°	9.2	4.5	1.9	1.3	1.0	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	5.1	2.5	1.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	0.0	0.0	0.0	0.0	0.3	0.3	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)