

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: P450998

Luminaire Tested: **GALN-SA1D-750-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450998
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-SA1D-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA 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: 5637 lumens
Efficiency: N/A
Efficacy: 86.7 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

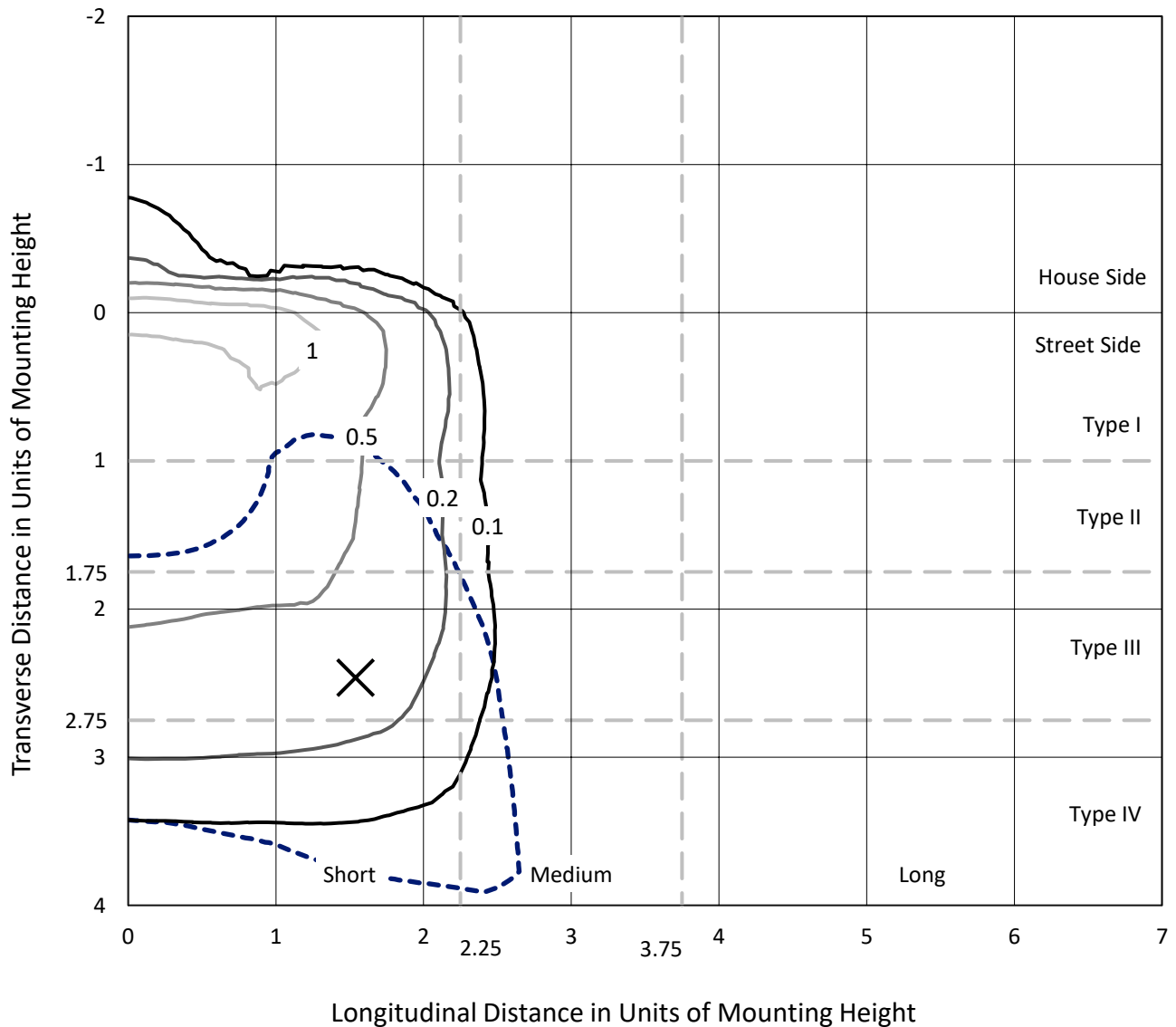
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

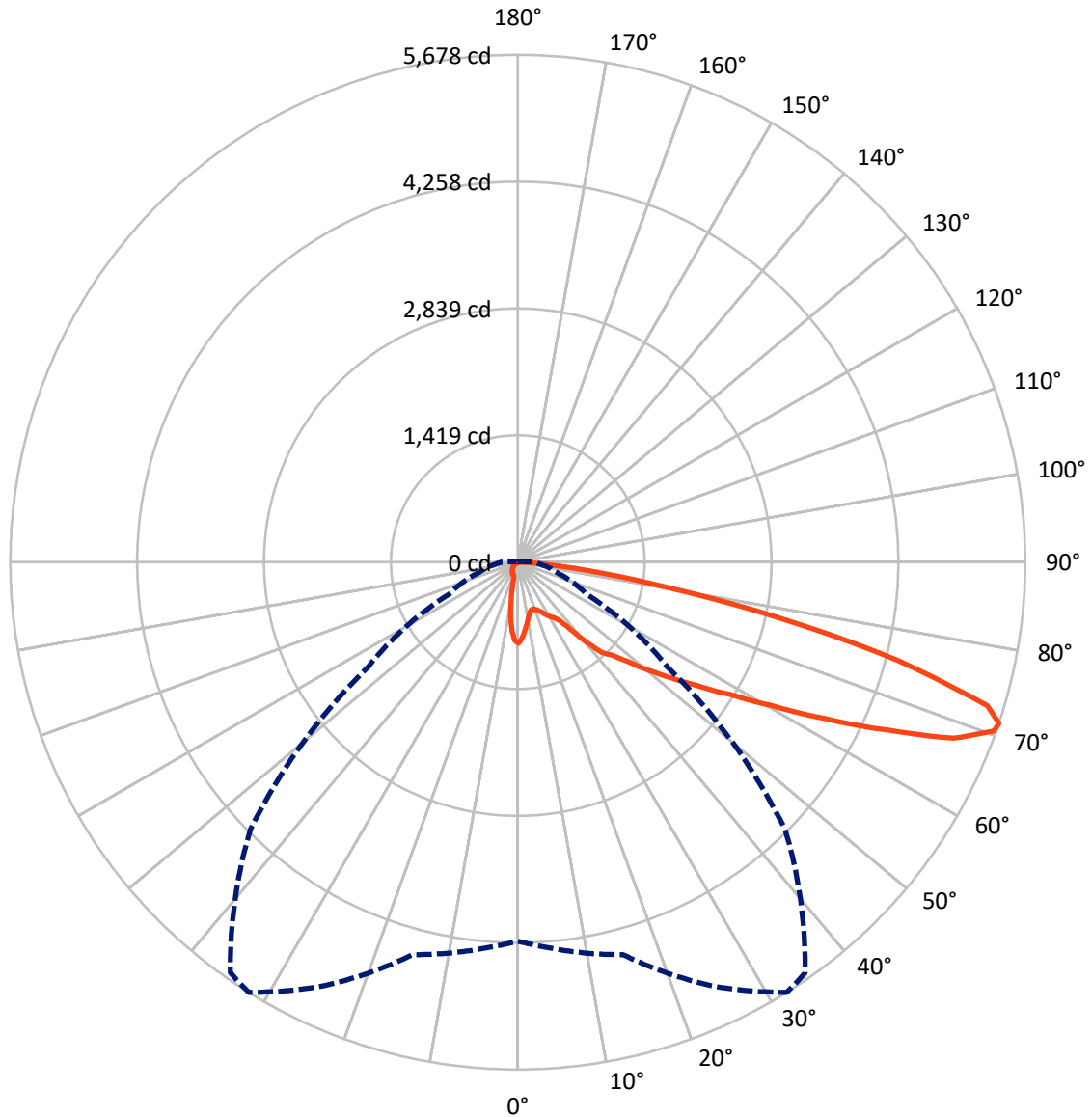
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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
House Side	Lumens	472.2	0.0	472.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5164.8	0.0	5164.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	5637.0	0.0	5637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.3
10°-20°	160.0	2.8
20°-30°	248.9	4.4
30°-40°	414.6	7.4
40°-50°	771.3	13.7
50°-60°	1238.3	22.0
60°-70°	1665.6	29.5
70°-80°	988.2	17.5
80°-90°	76.4	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°	5637.0	100.0
0°-180°	5637.0	100.0



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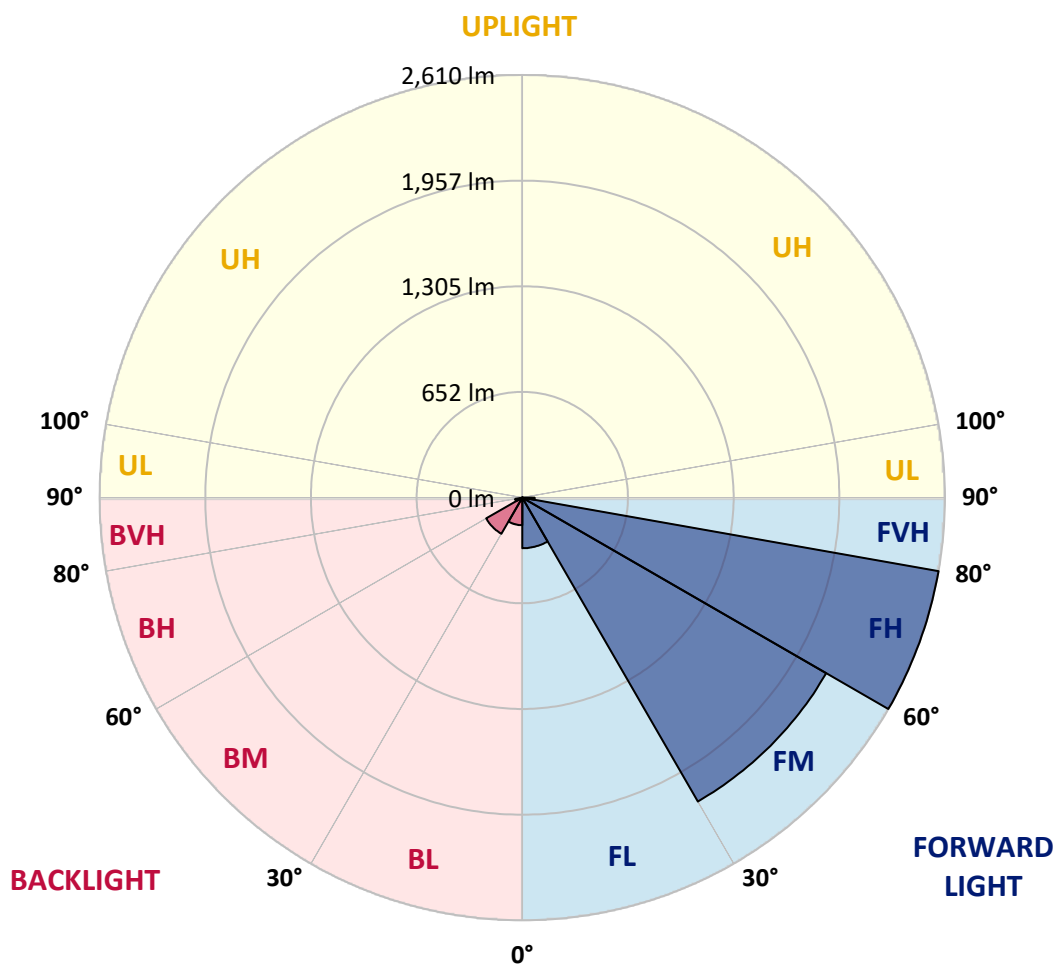
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.4	5.5			
FM (30°-60°)	2166.7	38.4			
FH (60°-80°)	2609.7	46.3			G2/5000
FVH (80°-90°)	76.1	1.3			G1/100
BL (0°-30°)	170.1	3.0	B1/500		
BM (30°-60°)	257.6	4.6	B1/1000		
BH (60°-80°)	44.2	0.8	B0/110		G0/110
BVH (80°-90°)	0.3	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°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	840.7	849.4	848.1	851.1	858.5	861.5	869.7	878.8	891.4	900.0	905.7
5°	752.9	759.4	760.3	775.4	782.8	791.0	815.2	841.6	871.0	894.4	910.0
7.5°	659.0	662.5	669.4	689.3	707.9	716.1	752.9	798.8	845.1	888.8	916.9
10°	581.6	585.5	598.0	619.2	636.5	647.3	698.4	755.9	820.8	885.7	926.9
12.5°	537.4	539.6	544.3	563.4	585.5	597.1	652.1	717.9	801.4	887.0	943.7
15°	534.4	533.5	527.9	535.7	555.6	567.7	621.4	691.9	784.1	891.4	963.6
17.5°	550.4	548.2	534.8	534.8	551.3	561.2	608.4	678.0	775.4	901.3	991.8
20°	575.1	571.6	549.5	547.8	563.8	574.2	616.2	678.9	777.1	919.9	1029.4
22.5°	606.2	602.3	569.0	569.9	587.2	597.6	638.7	694.5	788.0	942.9	1069.6
25°	646.9	642.6	603.2	601.5	619.6	628.7	672.0	722.2	803.1	971.4	1122.4
27.5°	701.0	691.9	644.7	642.1	661.6	673.3	712.2	759.4	829.9	1010.8	1193.4
30°	745.6	735.6	690.6	683.7	704.4	713.5	753.8	809.6	882.7	1079.6	1291.6
32.5°	804.0	789.3	736.5	718.3	740.4	752.0	813.9	903.1	961.0	1152.3	1408.5
35°	935.5	926.4	861.9	798.3	797.0	811.8	902.6	997.4	1041.5	1265.7	1567.7
37.5°	1123.7	1117.2	1048.9	963.6	939.0	932.0	1010.4	1101.2	1170.0	1421.4	1752.9
40°	1342.3	1327.1	1264.4	1192.1	1160.1	1139.7	1137.6	1255.7	1337.9	1633.0	1945.9
42.5°	1498.9	1471.2	1395.0	1389.8	1382.9	1361.7	1300.3	1481.6	1554.7	1860.6	2152.3
45°	1663.3	1621.3	1508.0	1488.5	1485.9	1484.6	1546.1	1749.0	1791.0	2107.3	2364.3
47.5°	1791.0	1757.6	1664.6	1656.0	1666.8	1696.2	1871.0	2032.8	2024.2	2327.1	2542.1
50°	1961.0	1935.9	1832.5	1848.9	1904.8	1952.8	2237.5	2342.2	2215.9	2500.2	2671.5
52.5°	2161.8	2115.5	2019.4	2064.0	2149.7	2229.7	2626.5	2613.1	2350.5	2630.4	2768.0
55°	2335.7	2302.9	2270.0	2316.3	2444.4	2544.3	2977.9	2816.0	2448.2	2735.1	2810.4
57.5°	2630.0	2622.2	2588.4	2635.6	2790.9	2894.8	3292.5	2973.6	2511.0	2789.7	2760.7
60°	3065.3	3052.7	2990.0	3050.1	3252.6	3415.8	3582.4	3115.0	2525.3	2768.4	2617.4
62.5°	3588.9	3546.0	3492.4	3581.1	3858.9	3930.7	3855.4	3199.0	2472.0	2599.7	2272.1
65°	4077.8	4033.7	4035.0	4221.9	4524.4	4573.3	4173.9	3186.4	2316.3	2176.9	1675.9
67.5°	4452.1	4444.7	4497.5	4862.3	5257.8	5224.1	4458.6	2998.6	1854.6	1411.1	890.5
70°	4471.1	4485.4	4636.9	5252.6	5654.2	5600.5	4434.4	2437.4	1156.2	649.1	350.9
71°	4240.9	4337.0	4546.4	5240.5	5677.5	5607.9	4230.1	2041.5	848.1	452.6	253.1
72.5°	3614.0	3664.6	4117.2	4932.0	5492.8	5343.9	3712.2	1431.0	543.0	276.9	145.4
75°	1990.4	2115.1	2757.2	3869.3	4393.3	4262.6	2419.3	679.8	270.9	151.4	60.1
77.5°	947.6	923.4	1345.3	2301.1	2978.7	2971.8	1218.9	302.0	157.9	102.6	30.3
80°	270.9	304.6	514.9	1093.9	1653.8	1672.0	468.2	145.8	109.5	80.1	15.6
82.5°	81.8	83.5	189.1	483.8	822.6	775.4	175.7	74.4	78.8	63.6	9.1
85°	14.3	17.7	55.8	170.5	313.7	238.0	44.1	35.5	51.9	42.0	5.2
87.5°	0.9	1.3	18.6	19.5	27.7	16.0	7.8	5.2	11.3	11.3	3.0
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°	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5	906.5
2.5°	909.5	912.1	910.4	906.5	900.0	892.2	881.9	873.2	865.8	861.9	866.7
5°	915.2	918.6	910.0	890.5	861.1	829.1	792.7	764.6	742.5	735.6	733.0
7.5°	923.8	926.0	902.6	859.4	797.0	721.3	655.1	599.3	556.0	543.0	524.0
10°	935.1	933.8	889.6	809.2	699.7	585.9	483.3	407.2	349.6	328.9	327.1
12.5°	952.4	945.5	873.2	740.8	583.7	434.9	308.1	241.0	204.7	192.6	190.0
15°	974.0	957.6	847.2	660.7	447.0	280.8	190.0	169.6	164.9	164.0	163.1
17.5°	999.5	973.6	813.1	562.5	314.1	182.2	158.8	158.4	158.8	157.9	157.5
20°	1034.2	990.5	772.4	446.1	207.7	153.6	151.4	151.4	151.9	151.4	151.4
22.5°	1070.9	1010.4	722.2	340.5	156.6	145.8	145.4	146.3	147.1	146.7	146.7
25°	1116.4	1036.3	656.0	233.2	140.2	139.3	139.8	141.5	143.2	143.7	143.2
27.5°	1182.2	1068.3	585.0	160.5	128.5	129.4	133.7	138.0	140.6	141.1	141.1
30°	1256.1	1103.8	492.4	130.2	119.0	119.0	124.2	132.4	138.0	138.9	139.3
32.5°	1351.3	1144.9	389.9	117.3	109.9	109.0	113.8	123.8	134.1	137.2	137.2
35°	1469.0	1193.4	289.9	109.0	103.4	101.3	103.8	112.1	125.5	134.1	135.0
37.5°	1607.1	1239.3	212.0	101.7	97.4	94.3	96.1	102.6	113.4	126.3	129.8
40°	1734.7	1279.9	158.4	95.6	91.3	89.1	90.4	93.5	102.6	114.7	116.8
42.5°	1874.0	1311.5	125.9	89.1	85.2	84.4	84.4	85.7	91.7	98.7	99.1
45°	2012.9	1322.8	105.6	81.3	78.8	79.6	79.2	78.3	80.9	80.1	80.1
47.5°	2112.0	1309.4	87.4	74.0	74.0	75.3	73.1	70.1	68.8	63.6	64.0
50°	2180.0	1260.5	71.8	65.3	68.8	70.5	66.2	61.4	56.7	51.1	49.8
52.5°	2208.1	1173.5	58.8	54.1	61.0	63.2	58.0	52.4	45.0	40.2	38.9
55°	2189.9	1066.2	48.9	44.1	51.5	54.1	48.9	42.4	34.2	29.0	28.1
57.5°	2109.9	938.1	41.5	35.0	41.1	42.8	39.4	32.5	24.2	19.0	19.0
60°	1971.4	805.7	33.8	27.7	30.7	33.3	29.9	23.4	16.4	11.7	10.8
62.5°	1690.6	654.3	27.3	21.6	21.6	23.8	20.8	16.9	10.4	6.1	5.6
65°	1220.7	448.7	21.6	16.0	15.6	15.6	13.0	11.3	6.1	2.6	1.7
67.5°	663.3	253.1	17.3	12.1	10.8	10.4	8.2	6.5	2.6	0.4	0.0
70°	260.9	97.4	13.4	8.2	6.9	6.5	4.3	3.0	1.7	0.0	0.0
71°	177.0	67.1	11.7	6.9	5.6	4.8	3.5	2.6	1.3	0.0	0.0
72.5°	101.3	41.5	9.1	5.2	4.3	3.5	2.6	1.7	1.3	0.0	0.0
75°	44.1	21.2	5.6	3.9	3.0	2.2	1.7	1.3	0.4	0.0	0.0
77.5°	22.5	11.7	3.9	3.0	1.7	1.3	0.9	0.4	0.0	0.0	0.0
80°	12.5	6.1	2.6	1.7	1.3	0.9	0.4	0.4	0.0	0.0	0.0
82.5°	6.9	3.5	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.9	0.0	0.0	0.0	0.0	0.4	0.4	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)