

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: P652199

Luminaire Tested: **GALN-SA1B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652199
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-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 3486.8 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

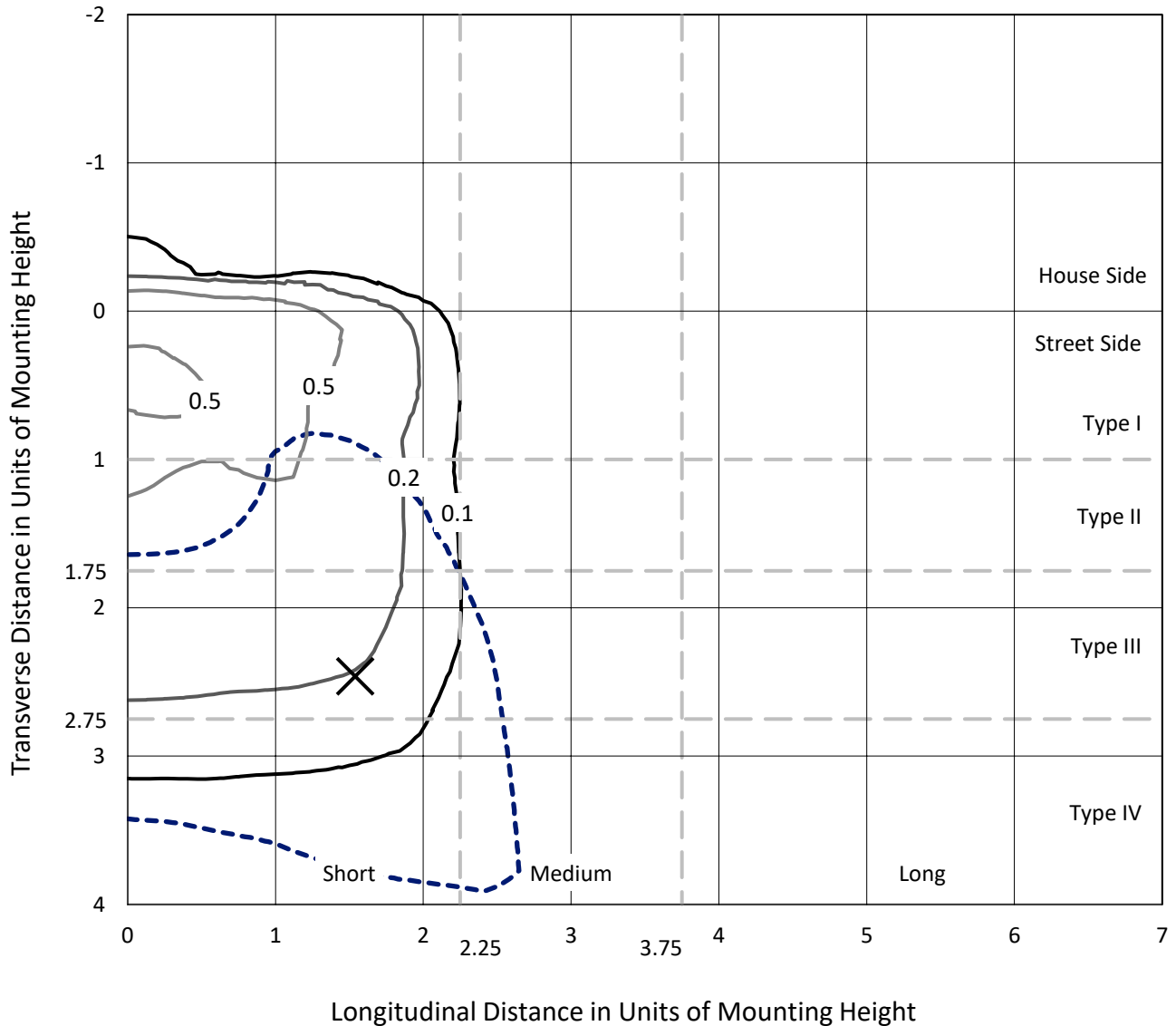
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

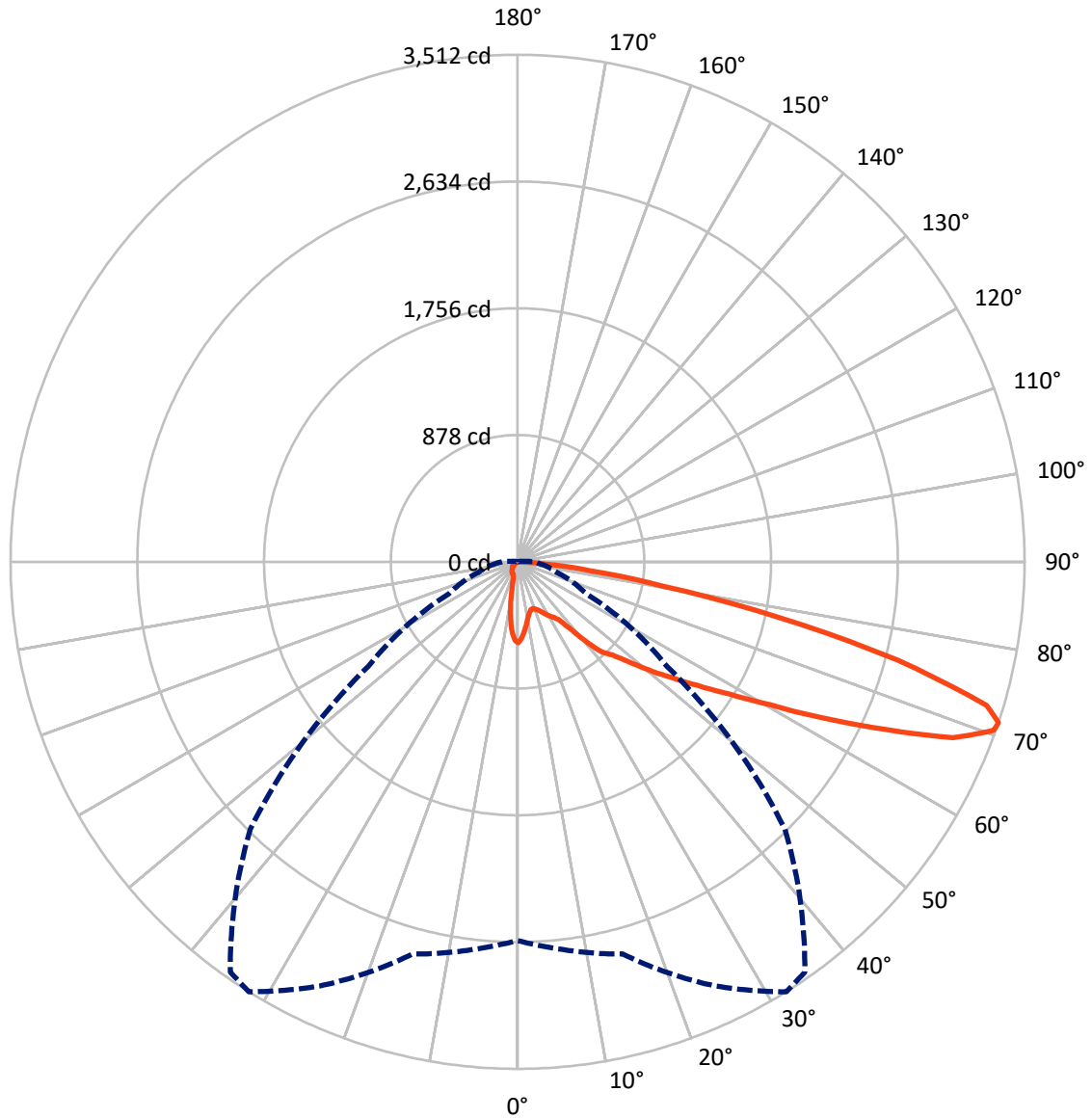
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	292.1	0.0	292.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3194.7	0.0	3194.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	3486.8	0.0	3486.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.3
10°-20°	99.0	2.8
20°-30°	153.9	4.4
30°-40°	256.5	7.4
40°-50°	477.1	13.7
50°-60°	766.0	22.0
60°-70°	1030.3	29.5
70°-80°	611.3	17.5
80°-90°	47.3	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°	3486.8	100.0
0°-180°	3486.8	100.0

Coefficient of Utilization



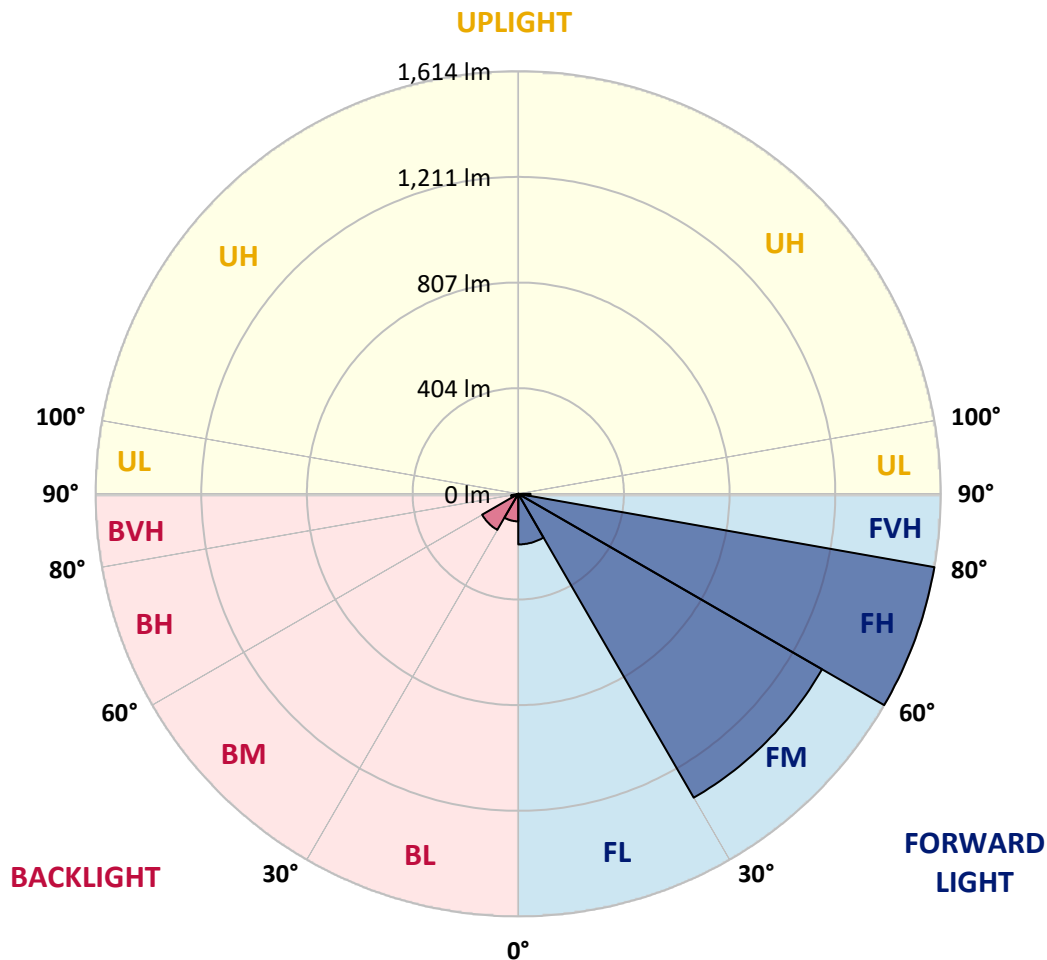
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.3	5.5			
FM (30°-60°)	1340.2	38.4			
FH (60°-80°)	1614.2	46.3			G1/1800
FVH (80°-90°)	47.1	1.3			G1/100
BL (0°-30°)	105.2	3.0	B0/110		
BM (30°-60°)	159.3	4.6	B0/220		
BH (60°-80°)	27.3	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: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	520.1	525.4	524.6	526.5	531.0	532.9	538.0	543.6	551.4	556.7	560.2
5°	465.7	469.7	470.3	479.6	484.2	489.3	504.3	520.6	538.7	553.2	562.9
7.5°	407.6	409.7	414.0	426.4	437.9	443.0	465.7	494.1	522.7	549.8	567.2
10°	359.7	362.1	369.9	383.0	393.8	400.4	432.0	467.6	507.7	547.9	573.3
12.5°	332.4	333.8	336.7	348.5	362.1	369.4	403.3	444.0	495.7	548.7	583.7
15°	330.5	330.0	326.6	331.4	343.6	351.1	384.3	428.0	485.0	551.4	596.1
17.5°	340.4	339.1	330.8	330.8	341.0	347.2	376.3	419.4	479.6	557.5	613.4
20°	355.7	353.6	339.9	338.8	348.8	355.2	381.1	419.9	480.7	569.0	636.7
22.5°	375.0	372.6	352.0	352.5	363.2	369.6	395.0	429.6	487.4	583.2	661.6
25°	400.1	397.5	373.1	372.1	383.2	388.9	415.6	446.7	496.8	600.9	694.3
27.5°	433.6	428.0	398.8	397.2	409.2	416.5	440.5	469.7	513.3	625.2	738.1
30°	461.2	455.0	427.1	422.9	435.7	441.4	466.3	500.8	546.0	667.8	798.9
32.5°	497.3	488.2	455.6	444.3	457.9	465.2	503.4	558.6	594.4	712.7	871.2
35°	578.7	573.1	533.2	493.8	493.0	502.1	558.3	617.0	644.2	782.9	969.7
37.5°	695.1	691.0	648.7	596.1	580.8	576.5	624.9	681.2	723.8	879.3	1084.2
40°	830.2	820.9	782.0	737.4	717.5	705.0	703.7	776.7	827.5	1010.1	1203.6
42.5°	927.1	910.0	863.0	859.7	855.4	842.3	804.3	916.4	961.7	1150.9	1331.3
45°	1028.9	1002.9	932.8	920.7	919.1	918.3	956.3	1081.9	1107.8	1303.5	1462.4
47.5°	1107.8	1087.2	1029.6	1024.3	1031.0	1049.2	1157.3	1257.5	1252.1	1439.5	1572.4
50°	1213.0	1197.5	1133.5	1143.7	1178.2	1207.9	1384.0	1448.8	1370.7	1546.5	1652.5
52.5°	1337.2	1308.5	1249.1	1276.7	1329.7	1379.2	1624.6	1616.3	1453.9	1627.1	1712.2
55°	1444.8	1424.4	1404.1	1432.7	1511.9	1573.8	1842.0	1741.9	1514.4	1691.8	1738.4
57.5°	1626.7	1622.0	1601.1	1630.3	1726.3	1790.6	2036.6	1839.3	1553.2	1725.6	1707.7
60°	1896.0	1888.3	1849.4	1886.7	2011.9	2112.8	2215.9	1926.8	1562.0	1712.4	1619.0
62.5°	2219.9	2193.4	2160.2	2215.1	2386.9	2431.3	2384.7	1978.7	1529.1	1608.1	1405.5
65°	2522.3	2495.1	2495.8	2611.5	2798.6	2828.8	2581.8	1971.0	1432.7	1346.5	1036.6
67.5°	2753.9	2749.3	2781.9	3007.6	3252.2	3231.4	2757.9	1854.8	1147.1	872.8	550.9
70°	2765.6	2774.5	2868.1	3249.0	3497.4	3464.2	2742.9	1507.7	715.2	401.5	217.1
71°	2623.2	2682.7	2812.2	3241.6	3511.8	3468.8	2616.5	1262.8	524.6	280.0	156.6
72.5°	2235.5	2266.7	2546.7	3050.7	3397.6	3305.5	2296.2	885.2	335.9	171.3	89.9
75°	1231.2	1308.3	1705.5	2393.3	2717.4	2636.6	1496.5	420.5	167.5	93.7	37.2
77.5°	586.2	571.2	832.2	1423.4	1842.5	1838.3	754.0	186.8	97.7	63.4	18.8
80°	167.5	188.5	318.5	676.6	1023.0	1034.2	289.6	90.2	67.7	49.5	9.7
82.5°	50.5	51.6	117.0	299.2	508.8	479.6	108.7	46.0	48.7	39.4	5.6
85°	8.8	10.9	34.6	105.5	194.0	147.2	27.3	22.0	32.1	26.0	3.2
87.5°	0.5	0.8	11.5	12.0	17.2	9.9	4.8	3.2	7.0	7.0	1.9
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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	562.6	564.2	563.1	560.7	556.7	551.9	545.5	540.1	535.5	533.2	536.1
5°	566.1	568.3	562.9	550.9	532.6	512.8	490.3	473.0	459.3	455.0	453.4
7.5°	571.5	572.8	558.3	531.6	493.0	446.2	405.2	370.7	344.0	335.9	324.1
10°	578.4	577.6	550.3	500.5	432.8	362.4	299.0	251.9	216.2	203.4	202.3
12.5°	589.1	584.8	540.1	458.3	361.0	269.0	190.6	149.1	126.6	119.1	117.5
15°	602.5	592.3	524.0	408.7	276.5	173.7	117.5	105.0	102.0	101.4	100.9
17.5°	618.3	602.2	502.9	347.9	194.4	112.7	98.2	98.0	98.2	97.7	97.4
20°	639.7	612.7	477.8	275.9	128.5	95.0	93.7	93.7	93.9	93.7	93.7
22.5°	662.5	624.9	446.7	210.7	96.9	90.2	89.9	90.5	91.0	90.7	90.7
25°	690.5	641.0	405.8	144.2	86.7	86.2	86.5	87.5	88.6	88.9	88.6
27.5°	731.2	660.9	361.9	99.3	79.5	80.1	82.7	85.4	87.0	87.3	87.3
30°	777.0	682.8	304.6	80.6	73.6	73.6	76.8	81.9	85.4	86.0	86.2
32.5°	835.9	708.2	241.1	72.5	68.0	67.4	70.4	76.5	83.0	84.9	84.9
35°	908.7	738.1	179.3	67.4	64.0	62.7	64.3	69.3	77.6	83.0	83.5
37.5°	994.1	766.6	131.1	62.9	60.2	58.4	59.5	63.4	70.1	78.1	80.3
40°	1073.0	791.7	98.0	59.1	56.5	55.2	55.9	57.8	63.4	70.9	72.2
42.5°	1159.2	811.2	77.9	55.2	52.7	52.2	52.2	53.0	56.8	61.1	61.3
45°	1245.1	818.2	65.3	50.3	48.7	49.3	48.9	48.4	50.0	49.5	49.5
47.5°	1306.4	809.9	54.1	45.8	45.8	46.6	45.2	43.4	42.6	39.4	39.6
50°	1348.5	779.7	44.4	40.5	42.6	43.6	41.0	38.0	35.1	31.6	30.8
52.5°	1365.8	725.9	36.4	33.5	37.8	39.1	35.8	32.4	27.8	24.9	24.1
55°	1354.6	659.5	30.3	27.3	31.9	33.5	30.3	26.2	21.1	17.9	17.4
57.5°	1305.1	580.3	25.7	21.7	25.4	26.5	24.4	20.1	15.0	11.8	11.8
60°	1219.4	498.4	20.9	17.2	19.0	20.6	18.5	14.5	10.2	7.2	6.7
62.5°	1045.7	404.7	16.8	13.4	13.4	14.7	12.9	10.4	6.4	3.8	3.4
65°	755.0	277.5	13.4	9.9	9.7	9.7	8.0	7.0	3.8	1.6	1.1
67.5°	410.3	156.6	10.7	7.5	6.7	6.4	5.0	4.0	1.6	0.3	0.0
70°	161.4	60.2	8.3	5.0	4.3	4.0	2.7	1.9	1.1	0.0	0.0
71°	109.5	41.5	7.2	4.3	3.4	2.9	2.1	1.6	0.8	0.0	0.0
72.5°	62.7	25.7	5.6	3.2	2.7	2.1	1.6	1.1	0.8	0.0	0.0
75°	27.3	13.1	3.4	2.4	1.9	1.3	1.1	0.8	0.3	0.0	0.0
77.5°	13.9	7.2	2.4	1.9	1.1	0.8	0.5	0.3	0.0	0.0	0.0
80°	7.7	3.8	1.6	1.1	0.8	0.5	0.3	0.3	0.0	0.0	0.0
82.5°	4.3	2.1	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	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)