

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: P646740

Luminaire Tested: **GALN-SA1C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

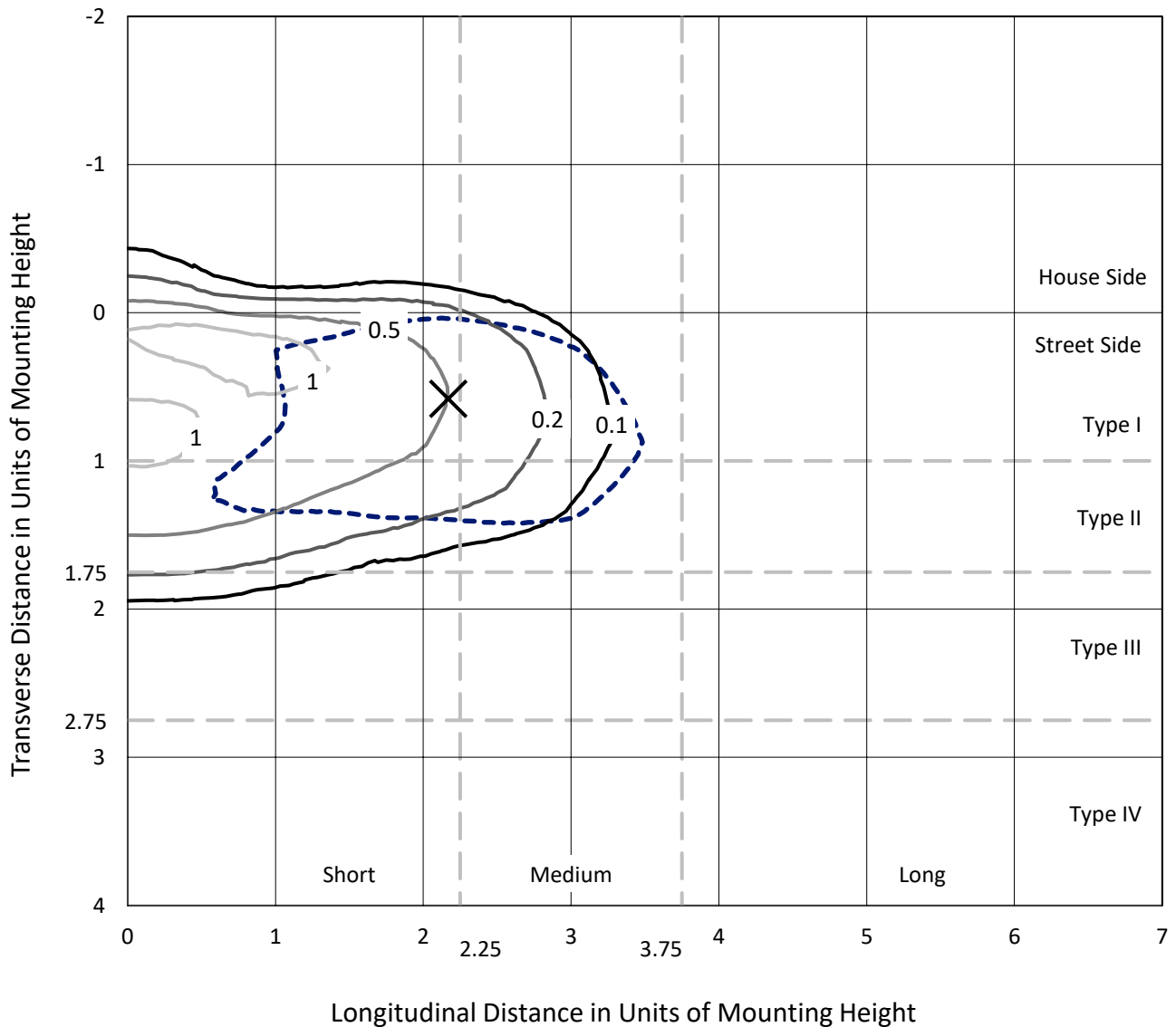
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

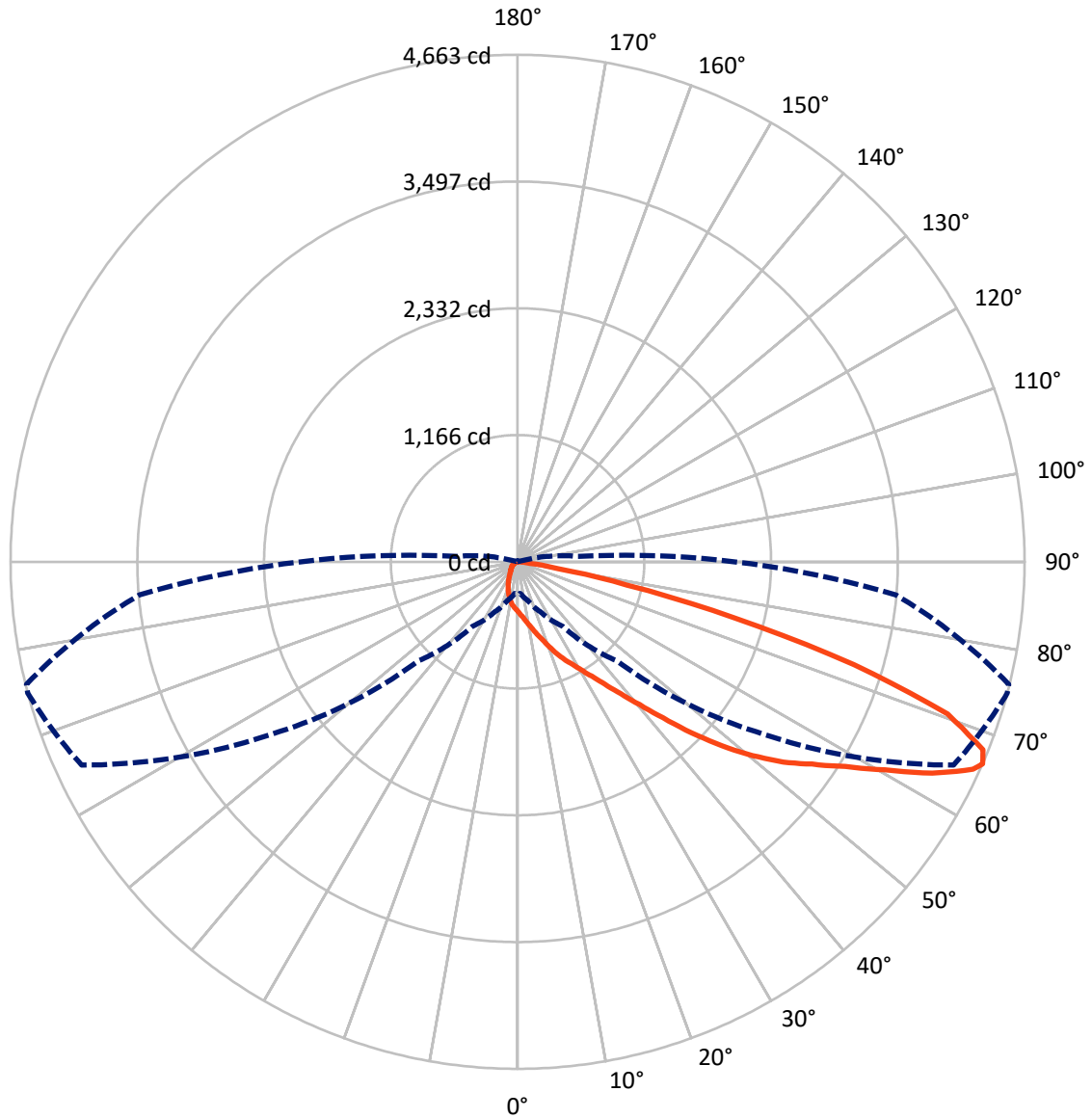
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.1	0.0	257.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3906.9	0.0	3906.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	4164.0	0.0	4164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.1
10°-20°	129.3	3.1
20°-30°	223.2	5.4
30°-40°	402.6	9.7
40°-50°	727.3	17.5
50°-60°	1133.9	27.2
60°-70°	1077.2	25.9
70°-80°	403.7	9.7
80°-90°	22.8	0.5
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°	4164.0	100.0
0°-180°	4164.0	100.0

Coefficient of Utilization

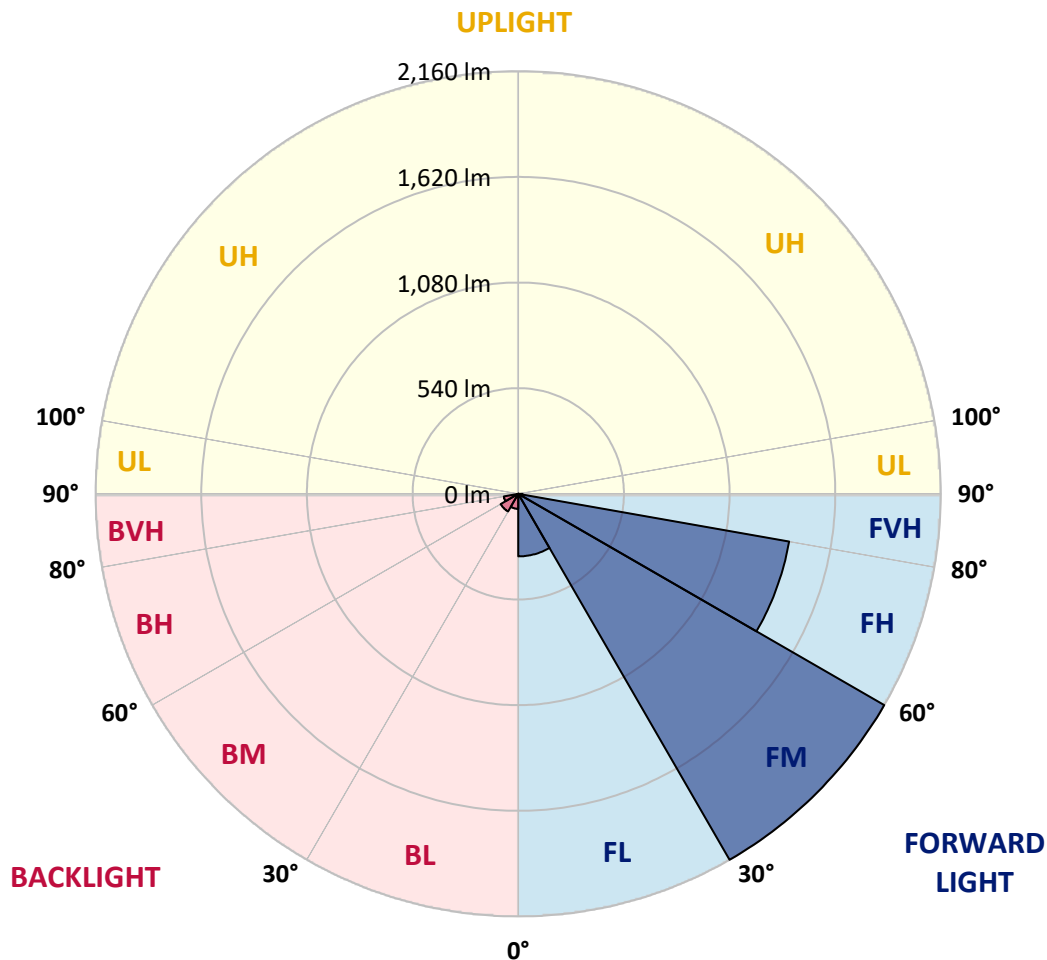


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.6	7.7			
FM (30°-60°)	2159.9	51.9			
FH (60°-80°)	1405.8	33.8			G1/1800
FVH (80°-90°)	21.6	0.5			G1/100
BL (0°-30°)	76.8	1.8	B0/110		
BM (30°-60°)	104.1	2.5	B0/220		
BH (60°-80°)	75.1	1.8	B0/110		G0/110
BVH (80°-90°)	1.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4
2.5°	544.0	537.3	539.4	536.4	529.2	518.8	509.6	496.3	483.1	480.9	466.1
5°	615.8	614.0	611.4	602.5	597.6	581.6	562.5	539.7	512.3	507.4	480.6
7.5°	664.8	663.8	665.1	660.5	656.2	641.7	621.3	590.2	547.7	545.0	500.3
10°	680.7	683.2	687.9	695.2	702.0	697.3	682.0	643.2	593.6	585.6	522.8
12.5°	671.5	674.3	685.4	705.1	726.9	739.5	733.4	705.1	642.3	635.8	548.0
15°	647.8	651.2	666.9	697.3	736.5	772.2	787.6	767.3	698.9	688.4	578.6
17.5°	612.7	617.6	640.1	680.4	734.0	795.6	839.0	832.3	759.3	749.4	611.8
20°	586.2	589.9	609.0	655.2	723.6	808.5	888.0	907.0	833.7	816.8	650.9
22.5°	603.8	605.0	611.4	639.2	704.8	811.9	931.1	984.9	912.9	897.8	691.5
25°	689.7	677.4	670.9	664.8	700.8	808.8	970.1	1066.2	991.7	975.7	731.9
27.5°	825.1	819.6	787.0	743.2	734.9	812.8	996.1	1143.2	1065.9	1048.7	771.3
30°	972.6	963.1	943.0	879.0	814.7	841.2	1014.8	1218.0	1153.7	1130.9	807.3
32.5°	1108.1	1114.3	1084.4	1018.5	944.0	901.5	1039.1	1299.6	1254.4	1226.0	849.2
35°	1266.0	1278.4	1232.5	1169.4	1082.3	1010.5	1086.6	1391.7	1382.2	1346.4	913.8
37.5°	1426.5	1433.8	1405.9	1317.2	1238.6	1149.1	1175.8	1505.3	1539.5	1509.0	991.1
40°	1561.3	1571.5	1550.9	1472.0	1388.3	1309.5	1305.5	1629.0	1726.7	1695.3	1106.2
42.5°	1664.5	1672.2	1672.8	1617.1	1541.6	1505.9	1470.8	1787.0	1961.3	1924.9	1239.9
45°	1794.7	1805.8	1799.3	1761.4	1705.1	1698.6	1680.5	1977.9	2242.0	2196.2	1413.2
47.5°	1996.1	2003.5	1987.5	1942.8	1885.5	1895.7	1884.9	2191.9	2528.4	2489.0	1592.7
50°	2135.9	2148.2	2170.9	2188.8	2147.2	2109.7	2077.7	2391.8	2800.3	2764.9	1776.2
52.5°	2134.3	2154.7	2226.7	2316.6	2407.4	2396.1	2304.0	2612.5	3059.8	3016.1	1948.7
55°	1990.5	2029.9	2135.9	2295.4	2546.9	2672.2	2630.3	2868.1	3284.0	3254.5	2148.5
57.5°	1693.7	1717.7	1864.9	2087.8	2469.0	2802.1	3008.4	3214.4	3552.8	3538.9	2458.9
60°	1139.2	1150.0	1339.3	1614.9	2102.0	2672.5	3285.5	3633.4	3883.8	3877.0	2821.2
62.5°	652.7	657.3	794.7	1027.1	1495.8	2264.8	3309.0	4150.4	4280.7	4284.3	3240.6
65°	351.3	353.8	464.6	602.8	910.2	1614.3	2975.5	4433.7	4601.5	4608.6	3500.4
66°	303.3	291.6	369.8	513.9	724.2	1284.8	2764.5	4423.5	4663.1	4655.3	3491.2
67.5°	230.6	241.1	295.3	395.0	536.7	913.5	2282.4	4226.8	4616.3	4592.2	3349.3
70°	165.1	169.4	210.3	281.7	365.5	501.3	1458.5	3510.6	4195.6	4163.4	2917.9
72.5°	106.6	111.2	149.0	203.8	264.2	273.7	816.5	2536.5	3234.7	3230.1	2197.4
75°	76.0	80.3	98.5	146.0	198.6	169.4	393.1	1709.4	2056.4	2042.5	1359.4
77.5°	55.1	57.2	65.9	95.4	142.0	121.3	182.3	912.9	1023.8	1072.1	600.7
80°	31.7	33.6	45.9	58.2	96.1	82.8	87.1	366.4	377.8	359.6	187.8
82.5°	15.7	17.9	27.4	39.7	60.1	55.7	40.0	110.2	116.4	113.3	47.4
85°	3.7	4.6	15.4	26.2	29.3	25.0	19.4	32.3	40.0	39.1	18.2
87.5°	0.3	0.6	5.6	4.6	4.9	8.3	6.8	8.3	12.9	12.0	6.5
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°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4
2.5°	459.4	453.5	436.6	420.0	406.1	391.7	378.4	370.7	367.6	364.3	365.7
5°	465.8	451.7	417.5	388.0	359.0	334.3	314.7	302.1	295.9	295.0	293.4
7.5°	474.5	450.1	397.2	351.0	313.1	285.7	263.2	245.1	239.5	234.6	230.6
10°	484.9	447.4	371.9	312.2	271.9	237.4	207.8	186.3	175.2	172.1	174.3
12.5°	496.0	442.2	345.5	276.5	230.0	186.0	158.6	147.8	144.7	143.4	143.8
15°	507.1	435.7	317.7	242.0	183.2	148.4	135.8	133.0	131.8	131.2	130.5
17.5°	517.2	425.2	286.7	208.4	148.4	126.8	122.2	119.8	117.3	116.4	114.9
20°	529.2	413.2	258.6	170.9	125.6	114.9	109.3	104.7	101.0	98.5	98.2
22.5°	540.7	397.8	229.4	141.6	114.6	103.1	94.2	89.3	85.0	81.9	82.8
25°	546.8	379.1	203.2	123.5	104.4	91.5	81.6	75.4	70.8	69.3	69.0
27.5°	546.8	356.0	177.7	113.0	95.1	81.0	70.8	65.0	61.9	59.7	60.1
30°	542.5	330.3	153.9	105.0	87.1	71.7	62.2	56.9	54.5	52.9	52.6
32.5°	539.1	306.1	133.7	97.3	78.8	63.7	55.4	51.4	48.9	47.4	47.4
35°	544.3	285.1	117.9	89.6	71.1	57.6	50.2	46.5	44.0	42.8	42.5
37.5°	558.2	266.0	105.9	81.3	64.0	52.3	46.5	42.2	39.7	38.2	37.6
40°	592.4	255.3	97.0	73.6	57.2	48.0	42.2	38.2	35.1	33.6	33.3
42.5°	647.2	255.6	88.4	66.5	52.1	44.3	38.5	33.9	30.5	29.0	28.7
45°	729.7	267.2	81.6	59.7	47.4	40.3	34.5	29.5	26.5	25.0	25.0
47.5°	828.6	290.0	75.7	53.9	43.1	36.6	30.5	25.5	22.5	21.2	21.2
50°	935.7	319.6	69.9	47.7	39.4	32.7	26.2	22.2	19.7	18.8	18.8
52.5°	1045.0	355.3	64.0	42.8	35.4	28.3	22.5	19.7	17.5	16.9	16.6
55°	1188.4	400.9	57.9	37.6	31.1	24.4	20.0	17.2	14.8	13.9	13.5
57.5°	1409.2	469.6	51.1	33.0	25.5	20.4	17.2	14.5	11.7	10.2	9.9
60°	1675.5	553.3	44.0	29.0	20.6	16.6	13.9	11.1	8.6	6.8	6.5
62.5°	1924.9	606.5	37.3	24.4	16.3	12.6	9.9	8.3	6.2	4.3	4.0
65°	2035.2	588.7	30.8	19.7	12.9	8.9	6.5	5.9	3.7	1.9	1.6
66°	1998.5	562.2	28.3	17.9	11.7	7.7	5.6	4.9	2.7	0.9	0.9
67.5°	1890.5	499.7	24.7	15.4	10.2	6.2	4.3	3.7	1.6	0.3	0.0
70°	1619.8	404.3	19.4	11.4	7.4	4.3	2.4	1.9	0.9	0.0	0.0
72.5°	1244.2	301.1	15.4	8.6	5.2	2.4	1.3	0.6	0.9	0.0	0.0
75°	762.3	172.1	12.0	6.5	3.4	1.6	0.9	0.0	0.9	0.3	0.0
77.5°	338.4	77.3	8.0	4.3	2.4	1.3	0.6	0.0	0.6	0.3	0.0
80°	85.6	25.2	4.6	3.1	1.9	0.9	0.3	0.0	0.6	0.6	0.3
82.5°	23.4	9.2	3.4	2.4	1.6	0.9	0.3	0.0	0.6	0.6	0.6
85°	9.2	4.3	3.1	2.4	1.9	0.9	0.3	0.0	0.6	0.6	0.6
87.5°	4.3	3.1	3.1	2.7	2.2	0.9	0.3	0.0	0.6	0.3	0.6
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)