

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: P650714

Luminaire Tested: **GALN-SA1C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650714
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-SA1C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA 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: 4308.4 lumens
Efficiency: N/A
Efficacy: 75.6 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

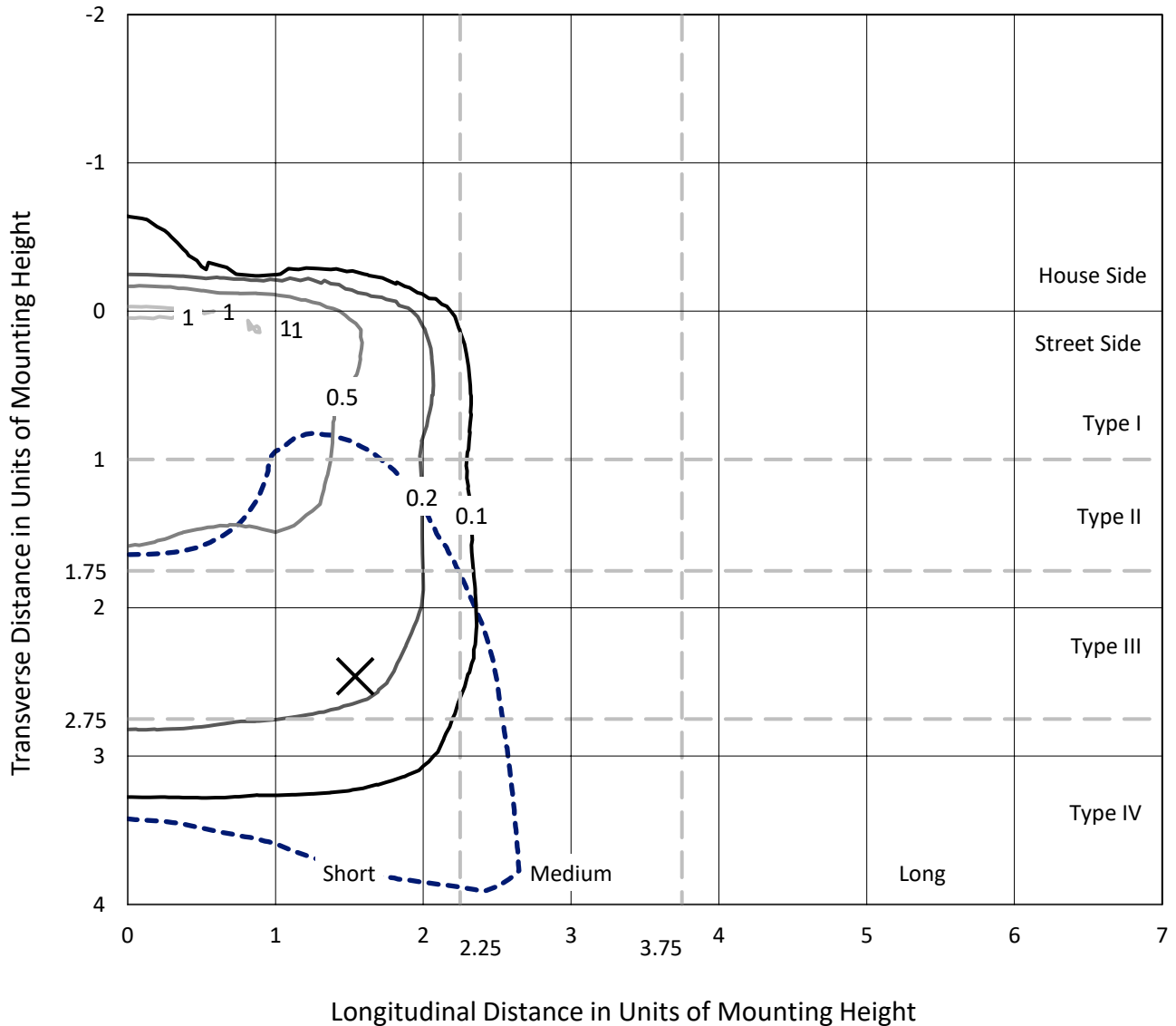
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

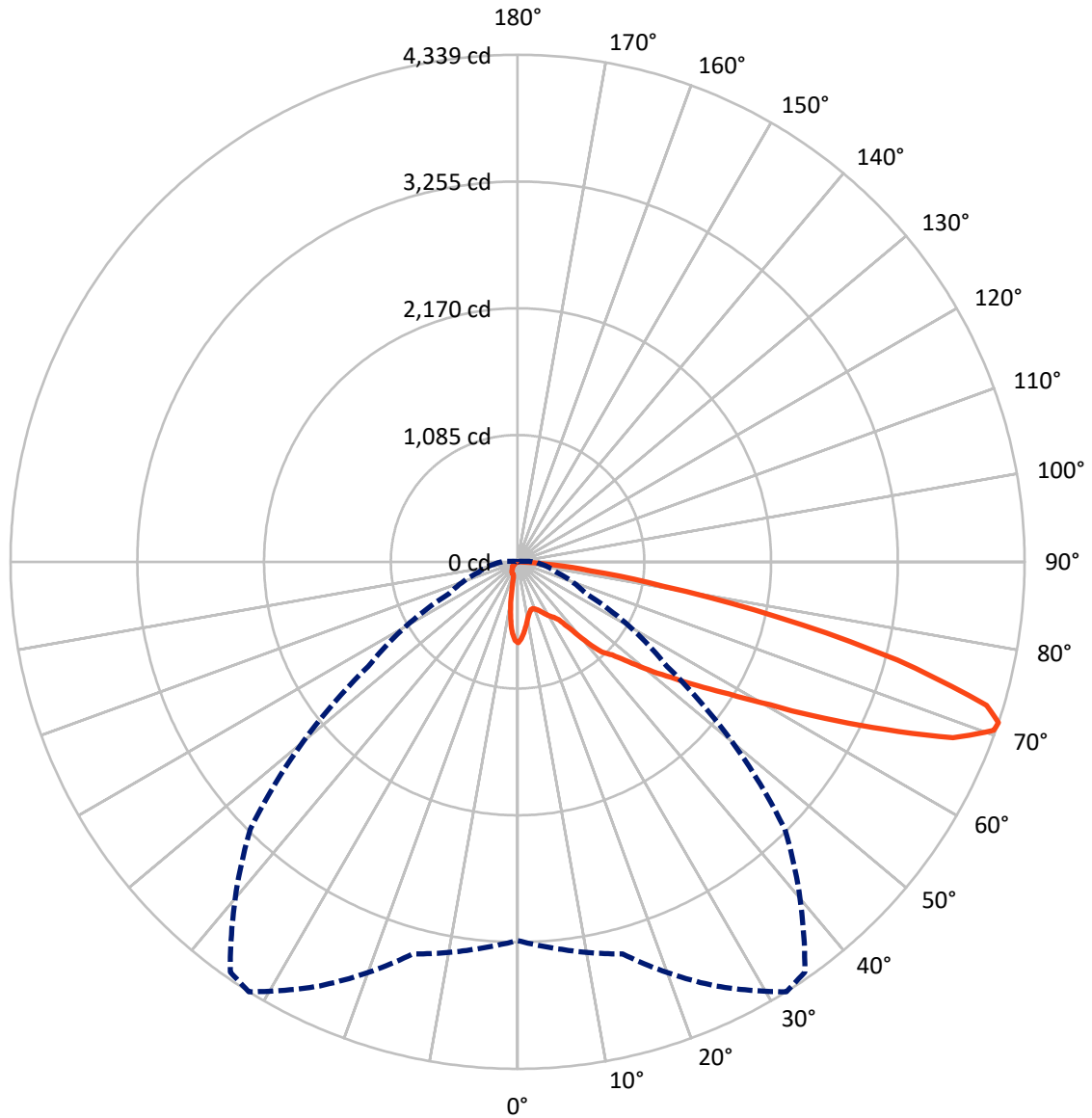
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
House Side	Lumens	360.9	0.0	360.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3947.6	0.0	3947.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	4308.4	0.0	4308.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.3
10°-20°	122.3	2.8
20°-30°	190.2	4.4
30°-40°	316.9	7.4
40°-50°	589.5	13.7
50°-60°	946.5	22.0
60°-70°	1273.0	29.5
70°-80°	755.3	17.5
80°-90°	58.4	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°	4308.4	100.0
0°-180°	4308.4	100.0

Coefficient of Utilization



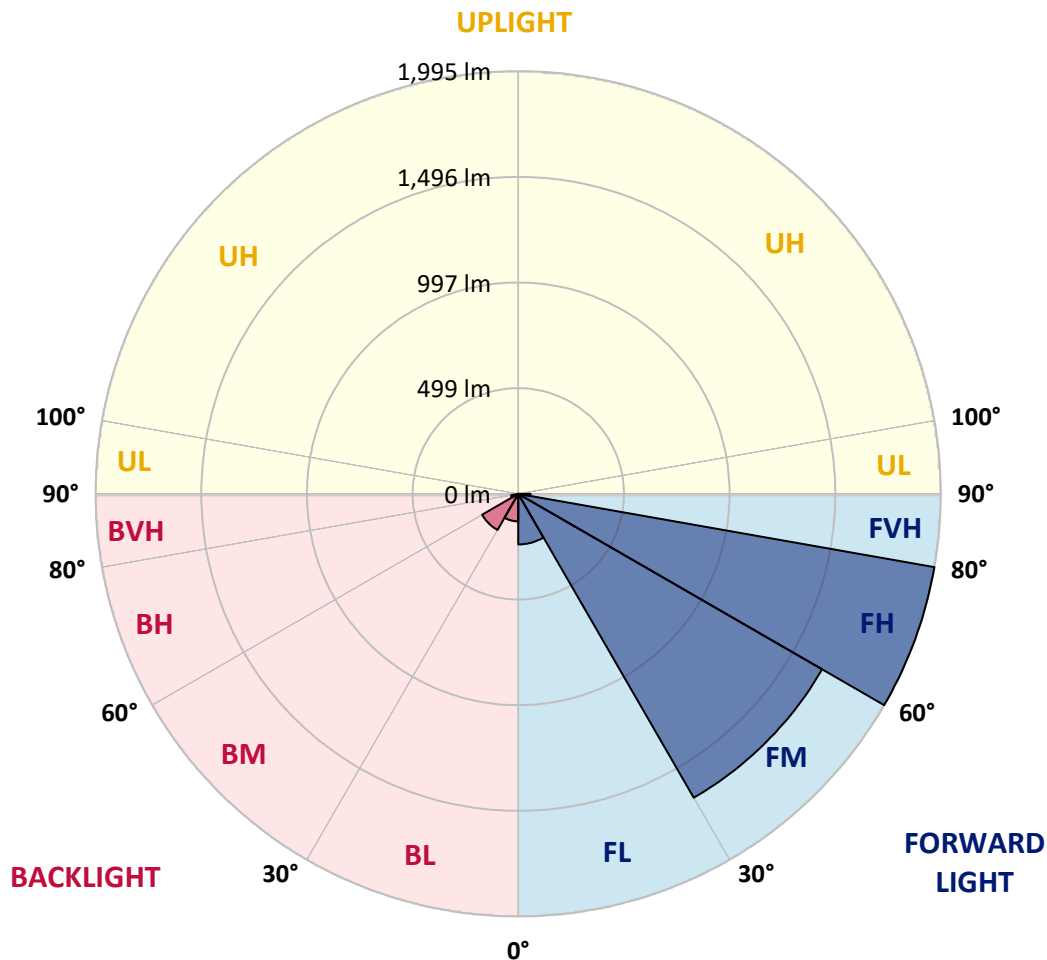
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.8	5.5			
FM (30°-60°)	1656.0	38.4			
FH (60°-80°)	1994.6	46.3			G2/5000
FVH (80°-90°)	58.2	1.3			G1/100
BL (0°-30°)	130.0	3.0	B1/500		
BM (30°-60°)	196.9	4.6	B0/220		
BH (60°-80°)	33.8	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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	642.6	649.2	648.2	650.5	656.1	658.5	664.7	671.7	681.3	687.9	692.2
5°	575.5	580.5	581.0	592.7	598.3	604.6	623.1	643.3	665.7	683.6	695.5
7.5°	503.7	506.4	511.7	526.8	541.1	547.3	575.5	610.5	645.9	679.3	700.8
10°	444.5	447.5	457.1	473.2	486.5	494.8	533.8	577.8	627.4	677.0	708.4
12.5°	410.7	412.4	416.0	430.6	447.5	456.4	498.4	548.7	612.5	678.0	721.3
15°	408.5	407.8	403.5	409.4	424.6	433.9	474.9	528.8	599.3	681.3	736.5
17.5°	420.7	419.0	408.8	408.8	421.3	428.9	465.0	518.2	592.7	688.9	758.0
20°	439.5	436.9	420.0	418.7	430.9	438.8	471.0	518.9	594.0	703.1	786.8
22.5°	463.3	460.4	434.9	435.6	448.8	456.7	488.1	530.8	602.2	720.7	817.5
25°	494.4	491.1	461.0	459.7	473.6	480.5	513.6	551.9	613.8	742.4	857.9
27.5°	535.8	528.8	492.7	490.8	505.7	514.6	544.4	580.5	634.4	772.5	912.1
30°	569.9	562.2	527.8	522.5	538.4	545.4	576.1	618.8	674.7	825.2	987.2
32.5°	614.5	603.2	562.9	549.0	565.9	574.8	622.1	690.2	734.5	880.7	1076.5
35°	715.0	708.0	658.8	610.1	609.2	620.4	689.9	762.3	796.1	967.4	1198.2
37.5°	858.9	854.0	801.6	736.5	717.7	712.4	772.2	841.7	894.2	1086.4	1339.8
40°	1025.9	1014.3	966.4	911.1	886.7	871.1	869.5	959.7	1022.6	1248.1	1487.2
42.5°	1145.6	1124.4	1066.2	1062.3	1057.0	1040.8	993.8	1132.4	1188.2	1422.1	1645.0
45°	1271.3	1239.2	1152.6	1137.7	1135.7	1134.7	1181.7	1336.8	1368.9	1610.6	1807.1
47.5°	1368.9	1343.4	1272.3	1265.7	1273.9	1296.4	1430.0	1553.7	1547.1	1778.6	1943.0
50°	1498.8	1479.7	1400.6	1413.2	1455.9	1492.5	1710.2	1790.2	1693.6	1910.9	2041.9
52.5°	1652.3	1616.9	1543.5	1577.5	1643.1	1704.2	2007.5	1997.2	1796.5	2010.5	2115.6
55°	1785.3	1760.1	1735.0	1770.4	1868.3	1944.6	2276.0	2152.4	1871.2	2090.5	2148.1
57.5°	2010.2	2004.2	1978.4	2014.4	2133.2	2212.5	2516.4	2272.7	1919.2	2132.2	2110.0
60°	2342.9	2333.3	2285.3	2331.3	2486.1	2610.7	2738.0	2380.9	1930.1	2116.0	2000.6
62.5°	2743.0	2710.3	2669.2	2737.0	2949.4	3004.3	2946.8	2445.0	1889.4	1986.9	1736.7
65°	3116.7	3083.0	3084.0	3226.8	3458.0	3495.4	3190.2	2435.5	1770.4	1663.8	1280.9
67.5°	3402.8	3397.2	3437.5	3716.3	4018.6	3992.8	3407.7	2291.9	1417.5	1078.5	680.6
70°	3417.4	3428.3	3544.1	4014.7	4321.6	4280.5	3389.2	1863.0	883.7	496.1	268.2
71°	3241.4	3314.8	3474.9	4005.3	4339.4	4286.2	3233.1	1560.4	648.2	345.9	193.5
72.5°	2762.2	2800.9	3146.9	3769.6	4198.2	4084.4	2837.3	1093.7	415.0	211.7	111.1
75°	1521.3	1616.6	2107.4	2957.3	3357.9	3257.9	1849.1	519.6	207.1	115.7	46.0
77.5°	724.3	705.8	1028.2	1758.8	2276.7	2271.4	931.7	230.9	120.7	78.4	23.1
80°	207.1	232.8	393.6	836.0	1264.0	1277.9	357.8	111.4	83.7	61.2	11.9
82.5°	62.5	63.8	144.6	369.8	628.7	592.7	134.3	56.9	60.2	48.6	7.0
85°	10.9	13.5	42.6	130.3	239.8	181.9	33.7	27.1	39.7	32.0	4.0
87.5°	0.7	1.0	14.2	14.9	21.2	12.3	6.0	4.0	8.6	8.6	2.4
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	695.2	697.2	695.8	692.9	687.9	682.0	674.0	667.4	661.8	658.8	662.5
5°	699.5	702.2	695.5	680.6	658.2	633.7	605.9	584.4	567.5	562.2	560.3
7.5°	706.1	707.8	689.9	656.8	609.2	551.3	500.7	458.1	425.0	415.0	400.5
10°	714.7	713.7	679.9	618.5	534.8	447.8	369.5	311.2	267.2	251.4	250.0
12.5°	727.9	722.7	667.4	566.2	446.2	332.4	235.5	184.2	156.4	147.2	145.2
15°	744.5	731.9	647.6	505.0	341.6	214.6	145.2	129.7	126.0	125.3	124.7
17.5°	764.0	744.1	621.4	429.9	240.1	139.3	121.4	121.0	121.4	120.7	120.3
20°	790.5	757.0	590.4	340.9	158.8	117.4	115.7	115.7	116.1	115.7	115.7
22.5°	818.5	772.2	551.9	260.3	119.8	111.4	111.1	111.8	112.4	112.1	112.1
25°	853.3	792.1	501.4	178.3	107.1	106.5	106.8	108.2	109.5	109.8	109.5
27.5°	903.6	816.5	447.2	122.7	98.2	98.9	102.2	105.5	107.5	107.8	107.8
30°	960.1	843.7	376.3	99.6	90.9	90.9	94.9	101.2	105.5	106.1	106.5
32.5°	1032.8	875.1	298.0	89.7	84.0	83.3	87.0	94.6	102.5	104.9	104.9
35°	1122.8	912.1	221.6	83.3	79.1	77.4	79.4	85.7	95.9	102.5	103.2
37.5°	1228.3	947.2	162.1	77.7	74.4	72.1	73.4	78.4	86.6	96.5	99.2
40°	1325.8	978.3	121.0	73.1	69.8	68.1	69.1	71.4	78.4	87.6	89.3
42.5°	1432.4	1002.4	96.2	68.1	65.2	64.5	64.5	65.5	70.1	75.4	75.8
45°	1538.5	1011.1	80.7	62.1	60.2	60.9	60.6	59.9	61.8	61.2	61.2
47.5°	1614.3	1000.8	66.8	56.5	56.5	57.5	55.9	53.6	52.6	48.6	48.9
50°	1666.2	963.4	54.9	50.0	52.6	53.9	50.6	46.9	43.3	39.0	38.0
52.5°	1687.7	896.9	45.0	41.4	46.6	48.3	44.3	40.0	34.4	30.8	29.8
55°	1673.8	814.9	37.3	33.7	39.4	41.4	37.3	32.4	26.2	22.1	21.5
57.5°	1612.6	717.0	31.8	26.8	31.5	32.7	30.1	24.8	18.5	14.5	14.5
60°	1506.7	615.8	25.8	21.2	23.5	25.5	22.8	17.8	12.5	8.9	8.2
62.5°	1292.1	500.1	20.9	16.6	16.6	18.2	15.9	12.9	7.9	4.6	4.3
65°	933.0	343.0	16.6	12.3	11.9	11.9	9.9	8.6	4.6	2.0	1.3
67.5°	507.0	193.5	13.2	9.3	8.2	7.9	6.3	5.0	2.0	0.3	0.0
70°	199.4	74.4	10.3	6.3	5.3	5.0	3.3	2.4	1.3	0.0	0.0
71°	135.2	51.3	8.9	5.3	4.3	3.6	2.6	2.0	1.0	0.0	0.0
72.5°	77.4	31.8	7.0	4.0	3.3	2.6	2.0	1.3	1.0	0.0	0.0
75°	33.7	16.2	4.3	2.9	2.4	1.7	1.3	1.0	0.3	0.0	0.0
77.5°	17.2	8.9	2.9	2.4	1.3	1.0	0.7	0.3	0.0	0.0	0.0
80°	9.6	4.6	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
82.5°	5.3	2.6	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.7	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)