

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: P528063

Luminaire Tested: **GALN-SA3A-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8302 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

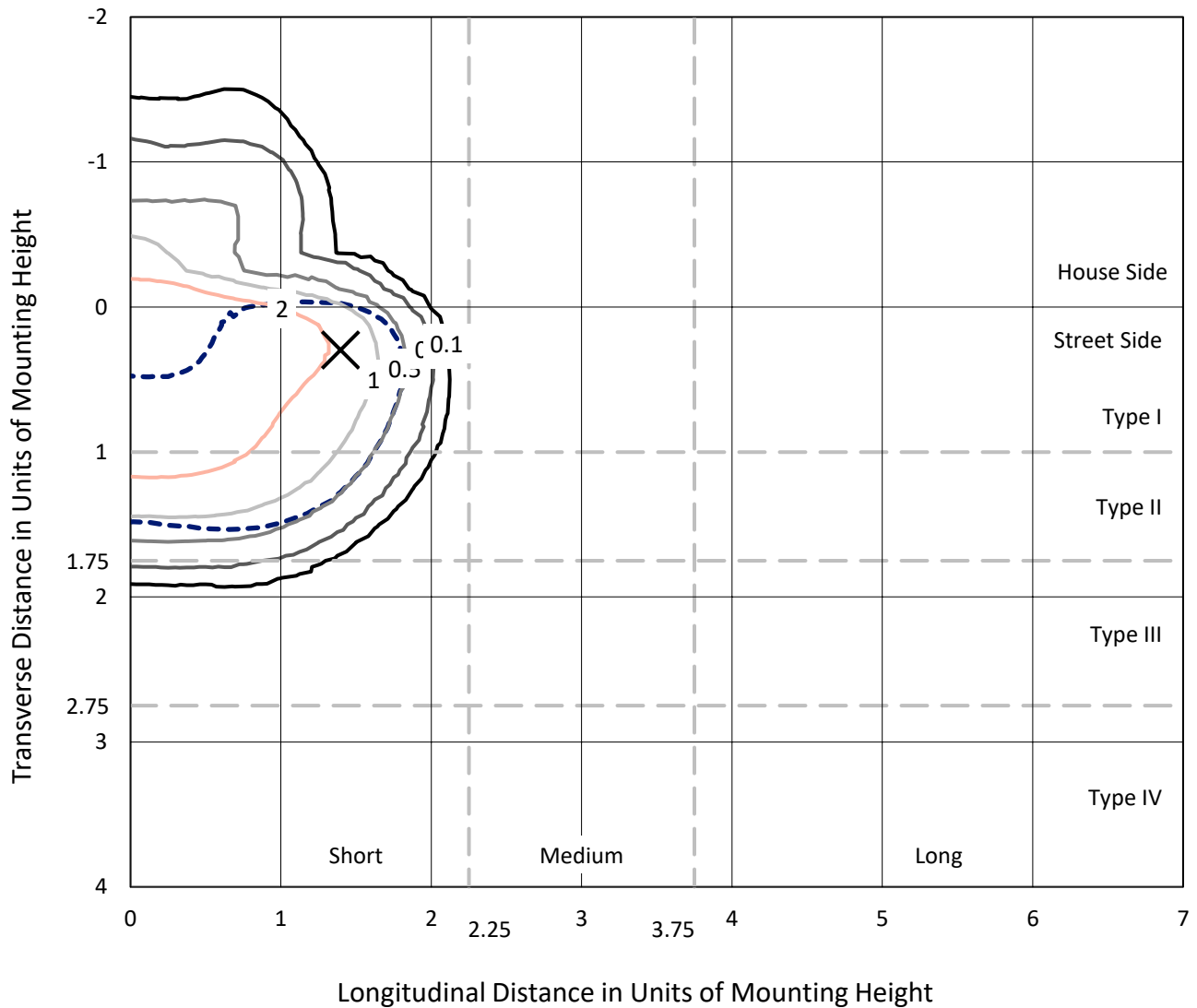
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

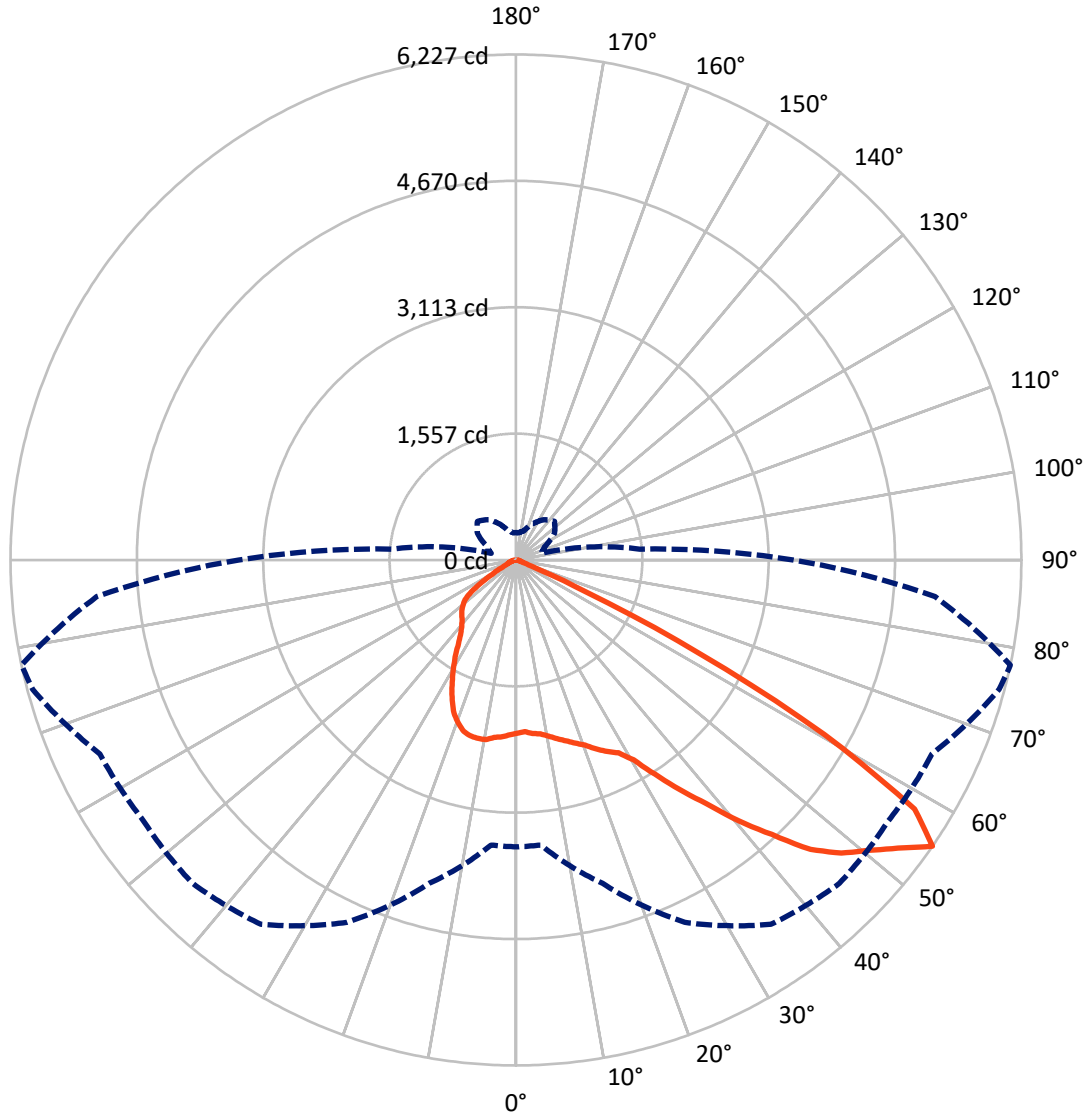
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.0	0.0	1542.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6760.0	0.0	6760.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	8302.0	0.0	8302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	2.3
10°-20°	503.7	6.1
20°-30°	882.9	10.6
30°-40°	1455.8	17.5
40°-50°	2118.3	25.5
50°-60°	2400.3	28.9
60°-70°	686.3	8.3
70°-80°	53.3	0.6
80°-90°	11.1	0.1
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°	8302.0	100.0
0°-180°	8302.0	100.0

Coefficient of Utilization



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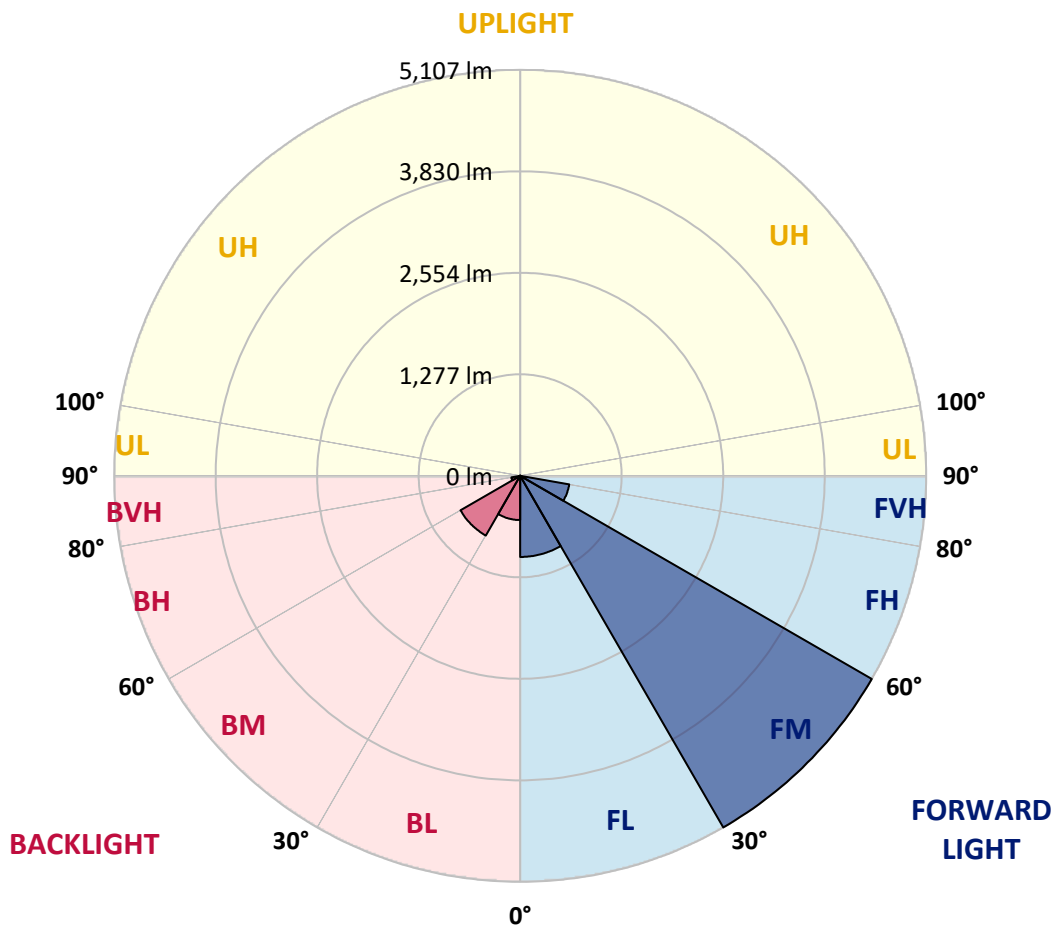
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.6	12.3			
FM (30°-60°)	5107.0	61.5			
FH (60°-80°)	627.0	7.6			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	556.4	6.7	B2/1000		
BM (30°-60°)	867.4	10.4	B1/1000		
BH (60°-80°)	112.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4
2.5°	2006.8	2026.1	2029.1	2052.8	2051.3	2091.4	2103.3	2104.8	2131.5	2118.1	2152.3
5°	1950.4	1940.0	1935.6	1977.1	1989.0	2024.6	2054.3	2072.1	2127.0	2146.3	2181.9
7.5°	1899.9	1899.9	1902.9	1940.0	1935.6	1981.6	2012.7	2067.7	2147.8	2164.1	2207.2
10°	1850.9	1833.1	1855.4	1894.0	1926.6	1947.4	2012.7	2064.7	2158.2	2205.7	2265.1
12.5°	1825.7	1834.6	1837.6	1865.8	1901.4	1963.8	1999.4	2085.5	2232.4	2260.6	2324.4
15°	1984.5	1966.7	1923.7	1898.4	1928.1	1957.8	2046.9	2134.4	2271.0	2311.1	2382.3
17.5°	2168.6	2153.7	2118.1	2049.8	1983.0	2038.0	2107.7	2187.9	2312.6	2371.9	2477.3
20°	2409.0	2385.3	2349.7	2216.1	2158.2	2098.8	2173.0	2268.0	2380.8	2434.3	2542.6
22.5°	2695.5	2695.5	2615.4	2453.6	2333.3	2276.9	2308.1	2363.0	2456.5	2529.3	2636.1
25°	2993.9	2985.0	2912.2	2744.5	2541.2	2474.4	2510.0	2548.6	2573.8	2613.9	2685.1
27.5°	3335.3	3283.3	3191.3	3005.7	2826.1	2697.0	2735.6	2701.5	2670.3	2691.1	2793.5
30°	3566.8	3599.5	3482.2	3304.1	3134.9	2990.9	2998.3	2968.6	2826.1	2855.8	2916.7
32.5°	3807.3	3828.1	3762.7	3664.8	3495.6	3327.8	3267.0	3241.8	3134.9	3148.2	3088.9
35°	4007.7	4047.7	3989.8	3946.8	3897.8	3762.7	3595.0	3676.7	3504.5	3471.8	3317.5
37.5°	4191.7	4179.8	4248.1	4203.6	4193.2	4098.2	3914.1	3930.5	3814.7	3807.3	3629.2
40°	4356.5	4359.4	4453.0	4473.7	4432.2	4263.0	3995.8	4124.9	4218.4	4227.3	3998.8
42.5°	4493.0	4533.1	4613.3	4781.0	4718.6	4436.6	4080.4	4221.4	4568.7	4623.7	4349.1
45°	4611.8	4693.4	4792.9	4942.8	4907.2	4683.0	4291.2	4420.3	4942.8	5086.8	4678.6
47.5°	4619.2	4726.1	4834.4	5057.1	5101.6	4815.1	4509.4	4735.0	5239.6	5395.5	4919.0
50°	4589.5	4645.9	4862.6	5104.6	5205.5	5030.4	4815.1	4999.2	5527.6	5625.6	5040.7
52.5°	4237.7	4280.8	4715.7	5149.1	5392.5	5273.8	5220.3	5367.3	5821.5	5894.2	5155.0
55°	3532.7	3525.3	4123.4	4925.0	5478.6	5634.5	5601.8	5653.8	6161.4	6226.7	5183.2
57.5°	2416.5	2551.5	3068.1	4101.2	4951.7	5549.9	5584.0	5497.9	5765.1	5790.3	4518.3
60°	1303.2	1359.6	1775.2	2737.1	3770.2	4522.7	4611.8	4455.9	4435.1	4363.9	3225.4
62.5°	518.0	546.2	782.2	1355.2	2054.3	2749.0	2940.4	2876.6	2740.1	2553.0	1669.9
65°	246.4	264.2	388.9	633.8	911.4	1145.9	1337.4	1396.7	1030.1	927.7	550.7
67.5°	167.7	181.1	283.5	362.2	325.1	339.9	442.3	411.2	241.9	206.3	152.9
70°	127.7	136.6	227.1	246.4	145.5	102.4	114.3	106.9	99.4	100.9	99.4
72.5°	90.5	98.0	166.2	145.5	63.8	47.5	60.9	72.7	72.7	72.7	71.2
75°	54.9	62.3	96.5	56.4	25.2	25.2	38.6	49.0	52.0	53.4	50.5
77.5°	28.2	35.6	32.7	16.3	16.3	19.3	28.2	34.1	37.1	37.1	35.6
80°	5.9	5.9	5.9	8.9	16.3	20.8	28.2	31.2	35.6	35.6	32.7
82.5°	0.0	1.5	4.5	8.9	14.8	19.3	26.7	31.2	35.6	37.1	34.1
85°	0.0	1.5	3.0	5.9	10.4	11.9	10.4	8.9	8.9	8.9	8.9
87.5°	0.0	0.0	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	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°	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4	2134.4
2.5°	2155.2	2159.7	2152.3	2150.8	2144.8	2162.7	2119.6	2109.2	2135.9	2110.7	2116.6
5°	2183.4	2193.8	2180.5	2158.2	2125.5	2075.1	2032.0	1975.6	1948.9	1929.6	1926.6
7.5°	2204.2	2211.6	2198.3	2127.0	2029.1	1901.4	1806.4	1736.7	1681.7	1665.4	1638.7
10°	2288.8	2290.3	2223.5	2066.2	1874.7	1707.0	1561.5	1454.6	1399.7	1365.6	1350.7
12.5°	2345.2	2342.3	2207.2	1945.9	1690.6	1468.0	1301.7	1172.6	1122.1	1105.8	1095.4
15°	2416.5	2400.1	2168.6	1822.7	1453.1	1212.7	1062.8	973.7	969.3	958.9	969.3
17.5°	2472.9	2426.9	2112.2	1598.6	1226.0	998.9	901.0	906.9	918.8	929.2	930.7
20°	2564.9	2469.9	1983.0	1402.7	1015.3	856.5	855.0	881.7	911.4	923.2	935.1
22.5°	2634.7	2487.7	1845.0	1193.4	843.1	798.6	823.8	863.9	886.1	898.0	915.8
25°	2659.9	2438.7	1661.0	984.1	760.0	771.8	810.4	837.2	865.4	878.7	871.3
27.5°	2685.1	2413.5	1441.3	810.4	715.4	754.0	786.7	813.4	822.3	840.1	852.0
30°	2746.0	2325.9	1243.9	700.6	693.2	742.2	765.9	774.8	798.6	809.0	809.0
32.5°	2795.0	2291.8	1034.6	648.6	690.2	748.1	751.1	751.1	754.0	746.6	743.6
35°	2895.9	2174.5	847.5	617.5	688.7	749.6	757.0	731.8	663.5	636.8	629.4
37.5°	3020.6	2098.8	709.5	610.1	699.1	767.4	779.3	684.3	595.2	552.2	544.7
40°	3172.0	2045.4	619.0	607.1	722.9	809.0	773.3	647.2	531.4	469.0	466.1
42.5°	3348.6	1996.4	558.1	605.6	752.5	852.0	767.4	616.0	466.1	424.5	430.5
45°	3489.6	1969.7	516.5	595.2	762.9	877.2	771.8	561.1	439.4	412.6	415.6
47.5°	3599.5	1913.3	482.4	577.4	761.5	886.1	731.8	538.8	426.0	433.4	440.8
50°	3602.4	1837.6	439.4	538.8	739.2	869.8	685.8	518.0	423.0	454.2	469.0
52.5°	3562.4	1730.7	393.3	483.9	687.2	813.4	644.2	509.1	409.7	406.7	424.5
55°	3419.9	1530.3	316.2	391.9	580.4	670.9	607.1	492.8	369.6	335.5	338.4
57.5°	2763.8	1096.9	233.0	280.5	411.2	491.3	547.7	485.4	332.5	285.0	286.5
60°	1711.4	621.9	170.7	191.5	253.8	298.3	443.8	451.2	296.9	240.5	237.5
62.5°	878.7	307.3	132.1	135.1	155.9	175.1	304.3	378.5	268.7	228.6	228.6
65°	293.9	151.4	115.8	103.9	103.9	108.4	184.1	262.7	227.1	191.5	191.5
67.5°	126.2	112.8	100.9	90.5	83.1	78.7	103.9	152.9	169.2	145.5	139.5
70°	98.0	95.0	87.6	75.7	65.3	59.4	60.9	78.7	96.5	93.5	90.5
72.5°	72.7	72.7	69.8	59.4	50.5	43.0	40.1	41.6	46.0	47.5	49.0
75°	50.5	52.0	52.0	46.0	37.1	31.2	26.7	22.3	17.8	14.8	13.4
77.5°	34.1	35.6	38.6	34.1	28.2	20.8	16.3	11.9	7.4	3.0	3.0
80°	29.7	34.1	37.1	34.1	29.7	22.3	16.3	8.9	4.5	0.0	0.0
82.5°	31.2	34.1	38.6	32.7	28.2	20.8	16.3	10.4	4.5	1.5	0.0
85°	7.4	7.4	8.9	10.4	13.4	14.8	11.9	7.4	4.5	1.5	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	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)