

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: P527699

Luminaire Tested: **GALN-SA2D-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527699
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-SA2D-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 7913 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

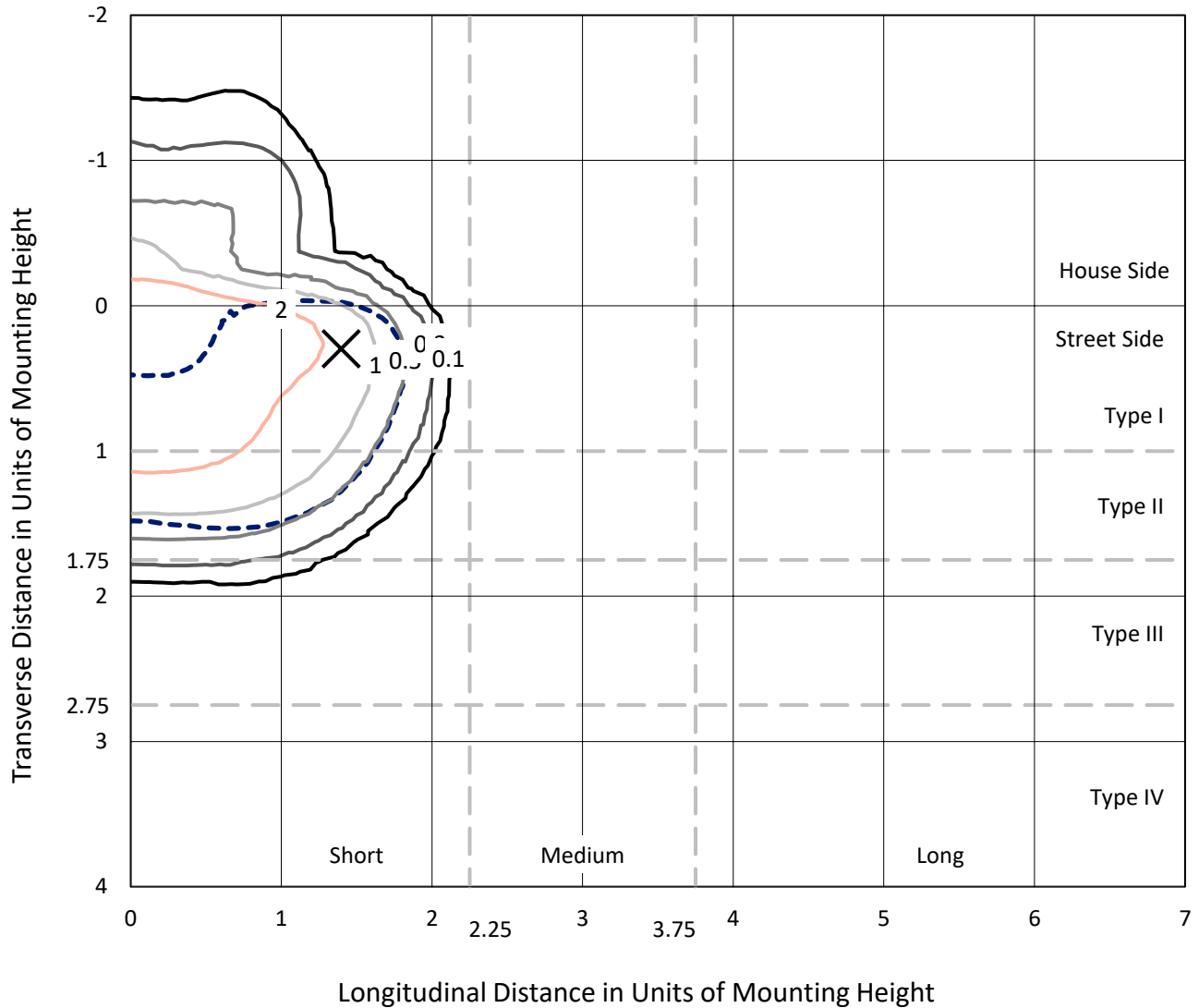
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

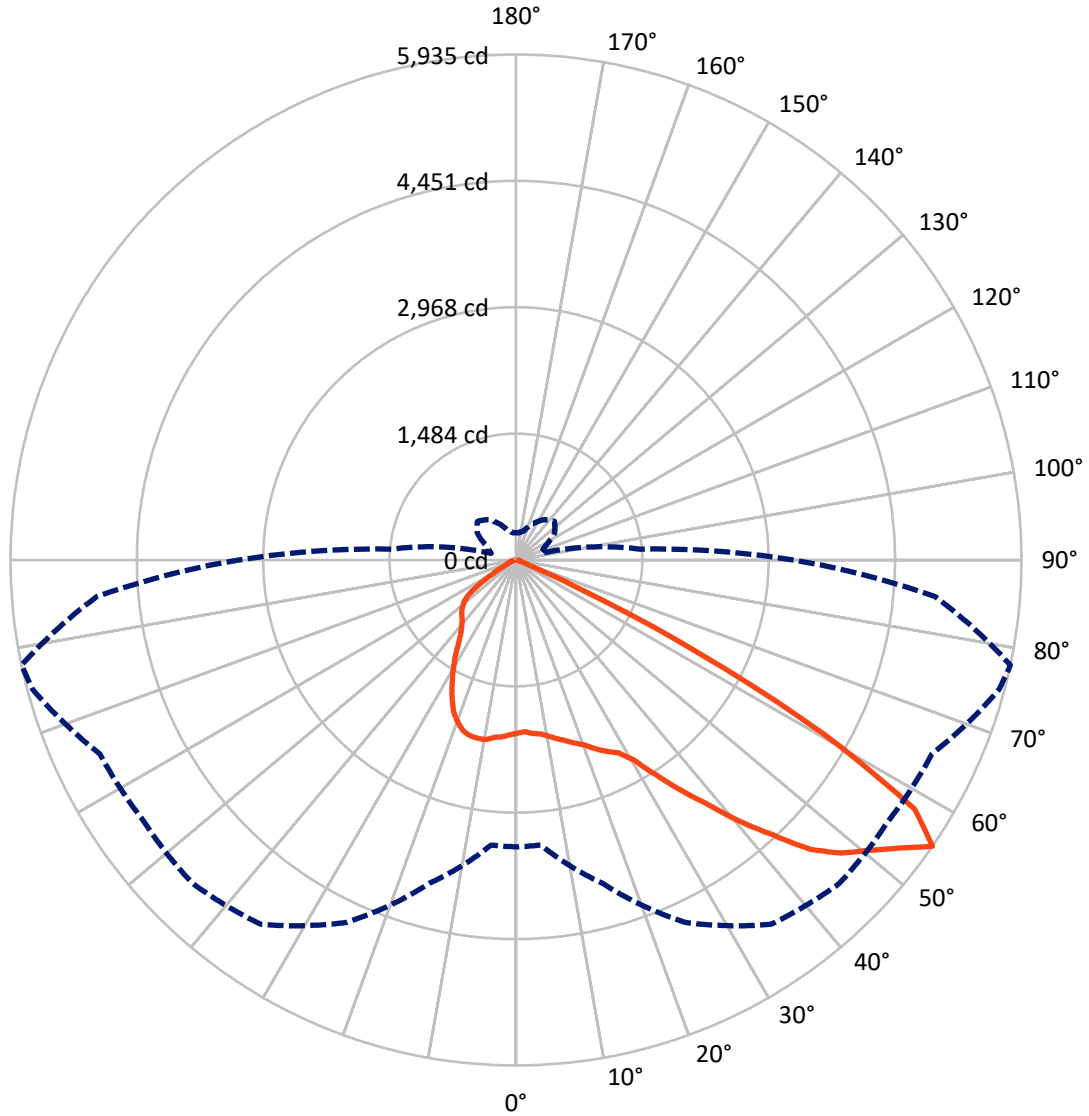
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1469.7	0.0	1469.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6443.3	0.0	6443.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	7913.0	0.0	7913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	2.3
10°-20°	480.1	6.1
20°-30°	841.5	10.6
30°-40°	1387.6	17.5
40°-50°	2019.1	25.5
50°-60°	2287.8	28.9
60°-70°	654.1	8.3
70°-80°	50.8	0.6
80°-90°	10.6	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°	7913.0	100.0
0°-180°	7913.0	100.0

Coefficient of Utilization



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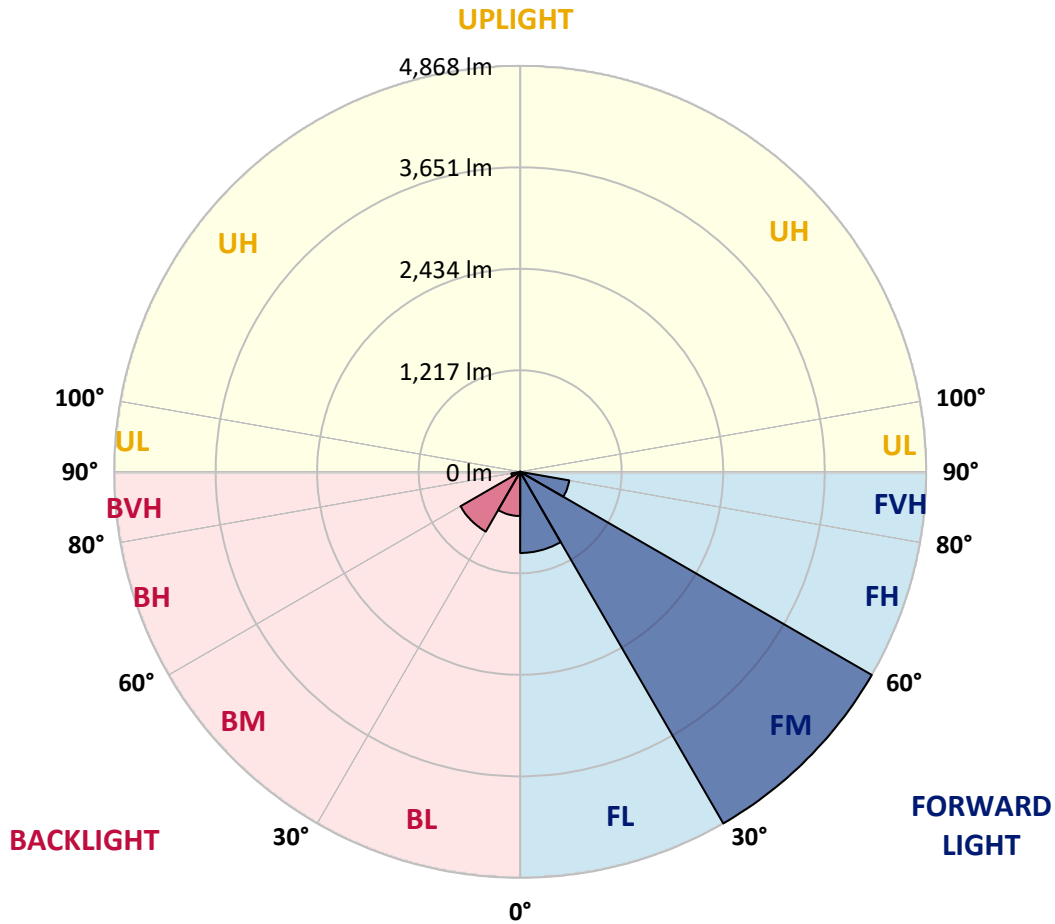
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.7	12.3			
FM (30°-60°)	4867.7	61.5			
FH (60°-80°)	597.6	7.6			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	530.3	6.7	B2/1000		
BM (30°-60°)	826.8	10.4	B1/1000		
BH (60°-80°)	107.3	1.4	B0/110		G0/110
BVH (80°-90°)	5.4	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	1912.8	1931.2	1934.0	1956.6	1955.2	1993.4	2004.7	2006.1	2031.6	2018.9	2051.4
5°	1859.0	1849.1	1844.9	1884.5	1895.8	1929.7	1958.0	1975.0	2027.4	2045.8	2079.7
7.5°	1810.9	1810.9	1813.7	1849.1	1844.9	1888.7	1918.4	1970.8	2047.2	2062.7	2103.8
10°	1764.2	1747.2	1768.5	1805.2	1836.4	1856.2	1918.4	1967.9	2057.1	2102.3	2158.9
12.5°	1740.2	1748.7	1751.5	1778.4	1812.3	1871.7	1905.7	1987.7	2127.8	2154.7	2215.5
15°	1891.5	1874.6	1833.5	1809.5	1837.8	1866.1	1951.0	2034.4	2164.6	2202.8	2270.7
17.5°	2067.0	2052.8	2018.9	1953.8	1890.1	1942.5	2009.0	2085.4	2204.2	2260.8	2361.2
20°	2296.2	2273.5	2239.6	2112.2	2057.1	2000.5	2071.2	2161.8	2269.3	2320.2	2423.5
22.5°	2569.2	2569.2	2492.8	2338.6	2224.0	2170.3	2200.0	2252.3	2341.4	2410.8	2512.6
25°	2853.6	2845.1	2775.8	2615.9	2422.1	2358.4	2392.4	2429.2	2453.2	2491.4	2559.3
27.5°	3179.0	3129.5	3041.8	2864.9	2693.7	2570.6	2607.4	2574.9	2545.2	2565.0	2662.6
30°	3399.7	3430.8	3319.0	3149.3	2988.0	2850.8	2857.8	2829.5	2693.7	2722.0	2780.0
32.5°	3628.9	3648.7	3586.4	3493.1	3331.8	3171.9	3113.9	3089.9	2988.0	3000.7	2944.1
35°	3819.9	3858.1	3802.9	3761.9	3715.2	3586.4	3426.6	3504.4	3340.3	3309.1	3162.0
37.5°	3995.3	3984.0	4049.1	4006.6	3996.7	3906.2	3730.7	3746.3	3636.0	3628.9	3459.1
40°	4152.3	4155.2	4244.3	4264.1	4224.5	4063.2	3808.6	3931.6	4020.8	4029.3	3811.4
42.5°	4282.5	4320.7	4397.1	4557.0	4497.5	4228.7	3889.2	4023.6	4354.7	4407.0	4145.3
45°	4395.7	4473.5	4568.3	4711.2	4677.2	4463.6	4090.1	4213.2	4711.2	4848.4	4459.3
47.5°	4402.8	4504.6	4607.9	4820.1	4862.6	4589.5	4298.1	4513.1	4994.1	5142.7	4688.5
50°	4374.5	4428.2	4634.8	4865.4	4961.6	4794.7	4589.5	4764.9	5268.6	5362.0	4804.6
52.5°	4039.2	4080.2	4494.7	4907.8	5139.9	5026.7	4975.7	5115.8	5548.7	5618.0	4913.5
55°	3367.1	3360.1	3930.2	4694.2	5221.9	5370.5	5339.3	5388.9	5872.7	5935.0	4940.4
57.5°	2303.2	2432.0	2924.3	3909.0	4719.7	5289.8	5322.4	5240.3	5495.0	5519.0	4306.6
60°	1242.2	1295.9	1692.1	2608.8	3593.5	4310.8	4395.7	4247.1	4227.3	4159.4	3074.3
62.5°	493.8	520.6	745.6	1291.7	1958.0	2620.2	2802.7	2741.8	2611.7	2433.4	1591.6
65°	234.9	251.8	370.7	604.1	868.7	1092.2	1274.7	1331.3	981.8	884.2	524.9
67.5°	159.9	172.6	270.2	345.2	309.8	324.0	421.6	391.9	230.6	196.7	145.7
70°	121.7	130.2	216.5	234.9	138.6	97.6	108.9	101.9	94.8	96.2	94.8
72.5°	86.3	93.4	158.5	138.6	60.8	45.3	58.0	69.3	69.3	69.3	67.9
75°	52.3	59.4	92.0	53.8	24.1	24.1	36.8	46.7	49.5	50.9	48.1
77.5°	26.9	34.0	31.1	15.6	15.6	18.4	26.9	32.5	35.4	35.4	34.0
80°	5.7	5.7	5.7	8.5	15.6	19.8	26.9	29.7	34.0	34.0	31.1
82.5°	0.0	1.4	4.2	8.5	14.1	18.4	25.5	29.7	34.0	35.4	32.5
85°	0.0	1.4	2.8	5.7	9.9	11.3	9.9	8.5	8.5	8.5	8.5
87.5°	0.0	0.0	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2054.2	2058.5	2051.4	2050.0	2044.3	2061.3	2020.3	2010.4	2035.9	2011.8	2017.5
5°	2081.1	2091.0	2078.3	2057.1	2025.9	1977.8	1936.8	1883.1	1857.6	1839.2	1836.4
7.5°	2100.9	2108.0	2095.3	2027.4	1934.0	1812.3	1721.8	1655.3	1602.9	1587.4	1561.9
10°	2181.6	2183.0	2119.3	1969.4	1786.9	1627.0	1488.3	1386.5	1334.1	1301.6	1287.4
12.5°	2235.3	2232.5	2103.8	1854.8	1611.4	1399.2	1240.8	1117.7	1069.6	1054.0	1044.1
15°	2303.2	2287.7	2067.0	1737.3	1385.1	1155.9	1013.0	928.1	923.8	913.9	923.8
17.5°	2357.0	2313.1	2013.2	1523.7	1168.6	952.1	858.8	864.4	875.7	885.6	887.1
20°	2444.7	2354.2	1890.1	1337.0	967.7	816.3	814.9	840.4	868.7	880.0	891.3
22.5°	2511.2	2371.2	1758.6	1137.5	803.6	761.1	785.2	823.4	844.6	855.9	872.9
25°	2535.3	2324.5	1583.1	938.0	724.4	735.7	772.5	797.9	824.8	837.5	830.5
27.5°	2559.3	2300.4	1373.7	772.5	681.9	718.7	749.8	775.3	783.8	800.8	812.1
30°	2617.3	2216.9	1185.6	667.8	660.7	707.4	730.0	738.5	761.1	771.0	771.0
32.5°	2664.0	2184.4	986.1	618.3	657.9	713.0	715.9	715.9	718.7	711.6	708.8
35°	2760.2	2072.6	807.8	588.5	656.5	714.5	721.5	697.5	632.4	606.9	599.9
37.5°	2879.1	2000.5	676.3	581.5	666.4	731.4	742.8	652.2	567.3	526.3	519.2
40°	3023.4	1949.6	590.0	578.6	689.0	771.0	737.1	616.8	506.5	447.1	444.2
42.5°	3191.7	1902.9	532.0	577.2	717.3	812.1	731.4	587.1	444.2	404.6	410.3
45°	3326.1	1877.4	492.3	567.3	727.2	836.1	735.7	534.8	418.8	393.3	396.1
47.5°	3430.8	1823.6	459.8	550.3	725.8	844.6	697.5	513.6	406.0	413.1	420.2
50°	3433.6	1751.5	418.8	513.6	704.6	829.1	653.6	493.8	403.2	432.9	447.1
52.5°	3395.4	1649.6	374.9	461.2	655.0	775.3	614.0	485.3	390.5	387.6	404.6
55°	3259.6	1458.6	301.3	373.5	553.2	639.5	578.6	469.7	352.3	319.7	322.6
57.5°	2634.3	1045.5	222.1	267.4	391.9	468.3	522.0	462.6	316.9	271.6	273.1
60°	1631.2	592.8	162.7	182.5	241.9	284.4	423.0	430.1	283.0	229.2	226.4
62.5°	837.5	292.9	125.9	128.7	148.6	166.9	290.0	360.8	256.1	217.9	217.9
65°	280.1	144.3	110.4	99.0	99.0	103.3	175.4	250.4	216.5	182.5	182.5
67.5°	120.3	107.5	96.2	86.3	79.2	75.0	99.0	145.7	161.3	138.6	133.0
70°	93.4	90.5	83.5	72.2	62.2	56.6	58.0	75.0	92.0	89.1	86.3
72.5°	69.3	69.3	66.5	56.6	48.1	41.0	38.2	39.6	43.9	45.3	46.7
75°	48.1	49.5	49.5	43.9	35.4	29.7	25.5	21.2	17.0	14.1	12.7
77.5°	32.5	34.0	36.8	32.5	26.9	19.8	15.6	11.3	7.1	2.8	2.8
80°	28.3	32.5	35.4	32.5	28.3	21.2	15.6	8.5	4.2	0.0	0.0
82.5°	29.7	32.5	36.8	31.1	26.9	19.8	15.6	9.9	4.2	1.4	0.0
85°	7.1	7.1	8.5	9.9	12.7	14.1	11.3	7.1	4.2	1.4	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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)