

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637231

Luminaire Tested: GWS-SA4C-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

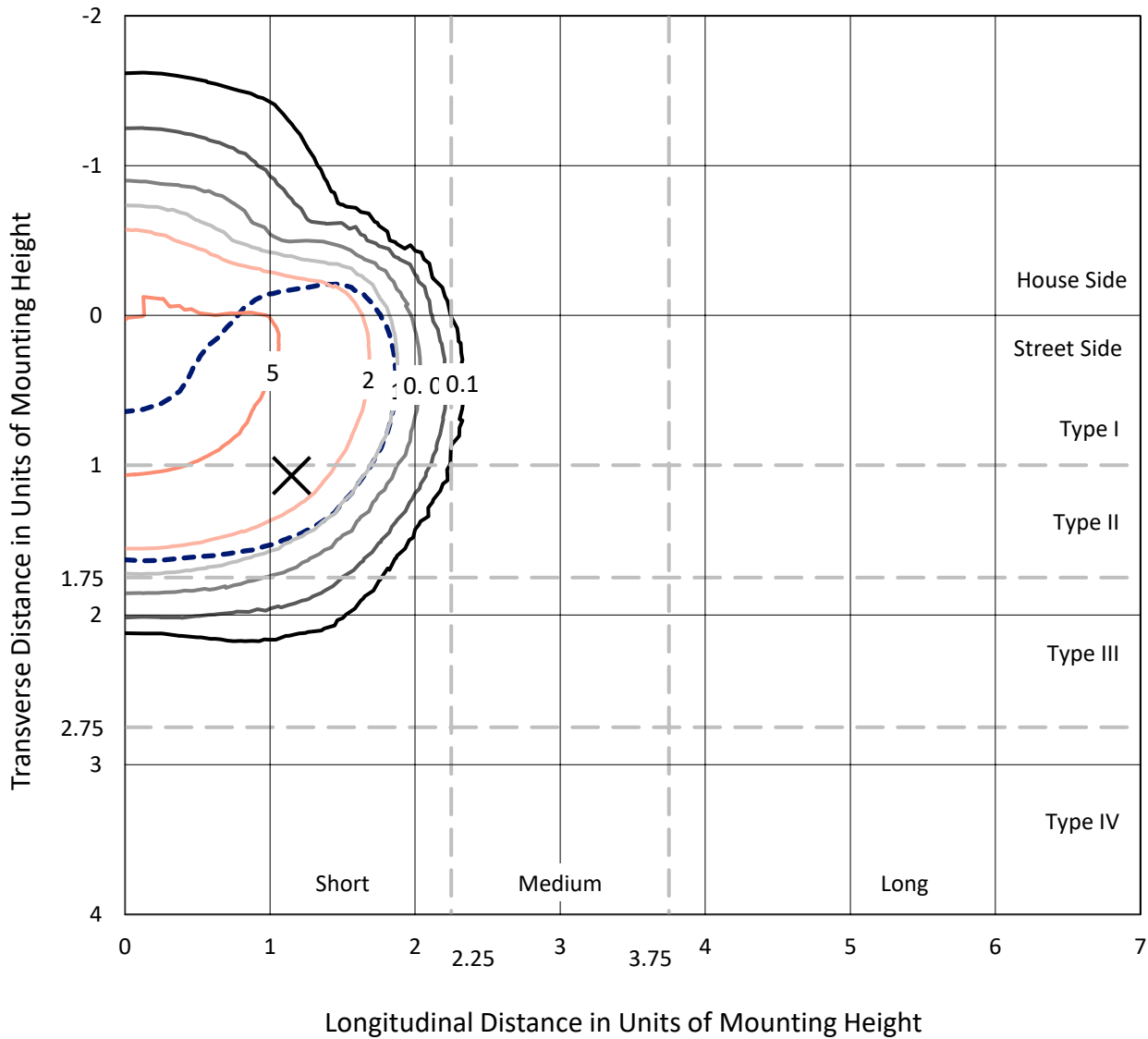
Lumens per Lamp: N/A  
Luminaire Lumens: 11822.6 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

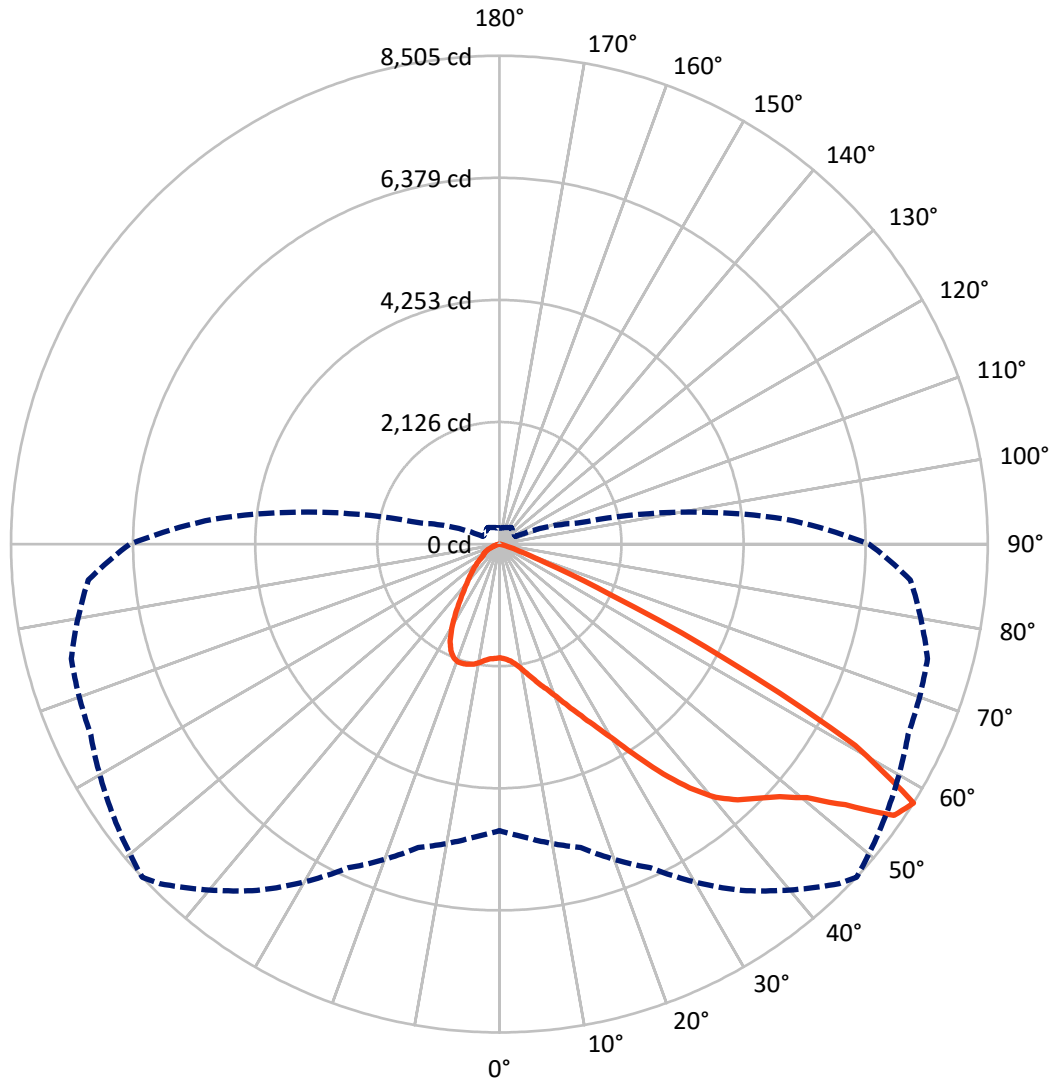
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2564.9	0.0	2564.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	9257.7	0.0	9257.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	11822.6	0.0	11822.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.9	1.7
10°-20°	664.4	5.6
20°-30°	1233.6	10.4
30°-40°	1974.8	16.7
40°-50°	2886.7	24.4
50°-60°	3562.6	30.1
60°-70°	1190.4	10.1
70°-80°	110.9	0.9
80°-90°	2.3	0.0
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°	11822.6	100.0
0°-180°	11822.6	100.0

**Coefficient of Utilization**



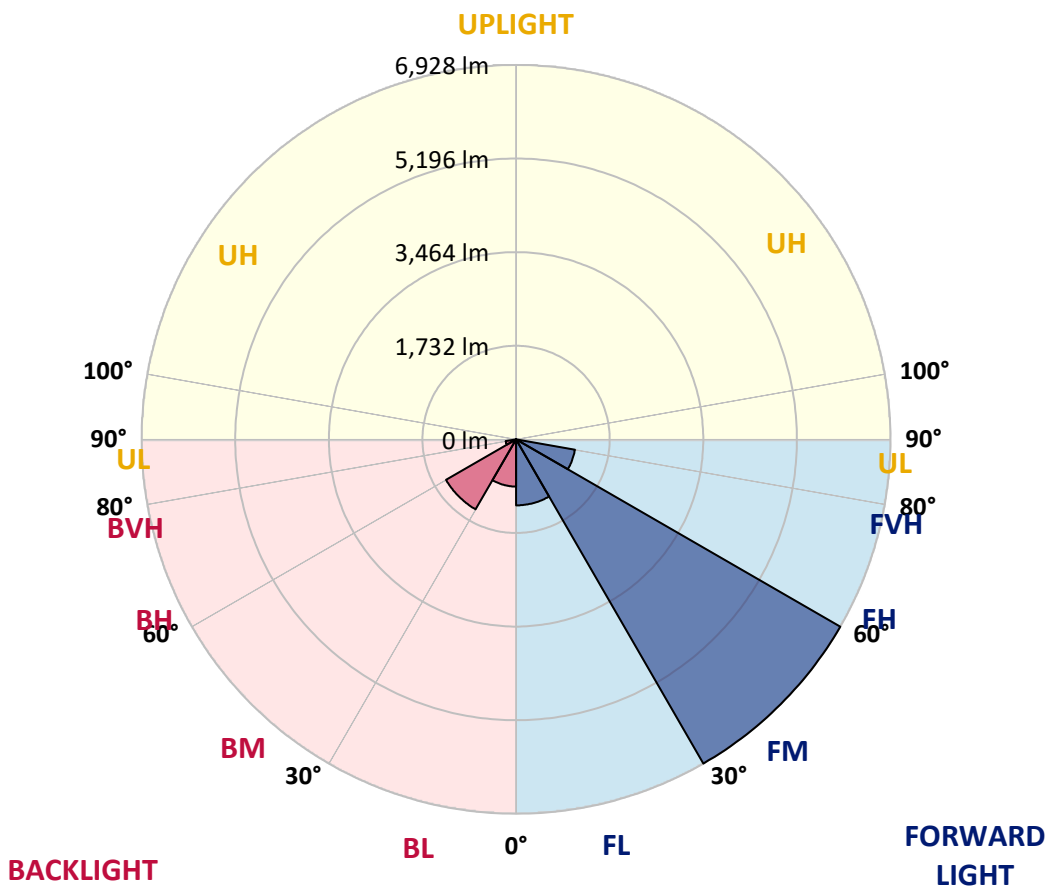
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.8	10.3			
FM (30°-60°)	6927.9	58.6			
FH (60°-80°)	1106.4	9.4			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	873.1	7.4	B2/1000		
BM (30°-60°)	1496.1	12.7	B2/2500		
BH (60°-80°)	195.0	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			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°	47°	55°	65°	75°	85°
0°	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1
2.5°	1999.7	1998.3	1997.0	2005.2	2002.4	2001.1	2003.8	2003.8	2003.8	1995.6	1979.1
5°	2047.7	2047.7	2046.4	2054.6	2047.7	2043.6	2045.0	2045.0	2039.5	2024.4	2003.8
7.5°	2123.2	2120.5	2117.7	2126.0	2119.1	2117.7	2120.5	2112.2	2102.6	2077.9	2049.1
10°	2231.7	2231.7	2227.5	2235.8	2230.3	2227.5	2227.5	2222.0	2204.2	2165.8	2123.2
12.5°	2381.3	2374.4	2364.8	2357.9	2355.2	2353.8	2355.2	2346.9	2327.7	2278.3	2219.3
15°	2544.6	2539.1	2524.0	2513.0	2497.9	2495.2	2503.4	2496.5	2477.3	2410.1	2326.4
17.5°	2750.4	2757.3	2718.9	2695.6	2651.6	2648.9	2651.6	2662.6	2648.9	2562.4	2440.3
20°	2926.1	2931.6	2902.8	2886.3	2846.5	2828.7	2834.2	2852.0	2836.9	2735.4	2565.2
22.5°	3114.2	3121.0	3090.8	3056.5	3038.7	3038.7	3059.3	3084.0	3063.4	2930.2	2707.9
25°	3339.2	3344.7	3320.0	3274.7	3243.2	3283.0	3313.2	3379.0	3344.7	3163.6	2876.7
27.5°	3597.3	3598.6	3563.0	3516.3	3499.8	3573.9	3604.1	3705.7	3692.0	3425.7	3055.1
30°	3873.1	3874.5	3866.3	3834.7	3819.6	3917.1	3958.2	4105.1	4095.5	3751.0	3298.1
32.5°	4160.0	4160.0	4175.1	4172.3	4190.2	4349.4	4415.3	4582.7	4573.1	4149.0	3600.0
35°	4448.2	4449.6	4475.7	4541.5	4615.6	4827.0	4913.5	5116.6	5094.6	4625.3	3985.7
37.5°	4776.2	4762.5	4798.2	4897.0	5061.7	5306.0	5388.4	5581.9	5557.2	5112.5	4489.4
40°	5171.5	5146.8	5146.8	5262.1	5448.7	5730.1	5800.1	5896.2	5812.5	5506.4	4983.5
42.5°	5608.0	5584.6	5554.4	5656.0	5812.5	6032.0	6089.7	6063.6	5995.0	5878.3	5546.2
45°	6049.9	6014.2	6034.8	6096.6	6187.1	6291.4	6313.4	6192.6	6161.1	6194.0	6011.5
47.5°	6386.1	6361.4	6412.2	6498.7	6572.8	6587.9	6572.8	6405.4	6402.6	6519.3	6334.0
50°	6498.7	6501.4	6641.4	6830.8	6950.2	6962.6	6942.0	6749.9	6723.8	6758.1	6508.3
52.5°	6509.7	6520.7	6725.2	7086.1	7411.4	7559.6	7543.1	7335.9	7080.6	7043.6	6771.8
55°	6244.8	6309.3	6594.8	7121.8	7813.5	8287.0	8341.9	7945.3	7566.5	7534.9	7338.6
57.5°	4991.7	5123.5	5468.0	6218.7	7364.7	8362.5	8505.3	8219.8	7853.3	7718.8	7186.3
60°	2983.8	3147.1	3477.9	4398.8	5605.2	6873.4	7119.1	7158.9	6990.0	6601.6	5513.3
62.5°	1280.5	1266.8	1674.4	2379.9	3333.8	4368.6	4479.8	4652.7	4799.6	4393.3	3346.1
65°	439.2	477.6	664.3	1073.3	1668.9	2028.5	2127.3	2282.4	2491.1	2056.0	1225.6
67.5°	271.8	288.2	382.9	634.1	900.3	886.6	842.7	818.0	796.0	544.9	336.3
70°	197.6	211.4	269.0	436.4	605.3	425.5	369.2	299.2	332.1	306.1	238.8
72.5°	133.1	144.1	185.3	264.9	310.2	207.2	192.1	218.2	263.5	251.2	194.9
75°	79.6	86.5	105.7	129.0	126.3	107.1	108.4	153.7	201.8	188.0	138.6
77.5°	54.9	57.6	70.0	83.7	61.8	32.9	30.2	42.5	68.6	68.6	46.7
80°	13.7	17.8	17.8	11.0	9.6	8.2	8.2	12.4	19.2	13.7	6.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
85°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7
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°	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1	1979.1
2.5°	1988.7	1972.3	1983.2	1980.5	1988.7	1991.5	1979.1	1976.4	1977.7	1961.3	1955.8
5°	2007.9	1988.7	1994.2	1988.7	1998.3	2006.6	2002.4	2007.9	2014.8	2002.4	1997.0
7.5°	2049.1	2029.9	2028.5	2020.3	2034.0	2039.5	2038.1	2053.2	2067.0	2058.7	2050.5
10°	2120.5	2094.4	2091.7	2084.8	2088.9	2093.0	2077.9	2080.7	2093.0	2083.4	2079.3
12.5°	2208.3	2176.8	2169.9	2153.4	2153.4	2132.8	2099.9	2093.0	2102.6	2095.8	2088.9
15°	2303.0	2260.5	2249.5	2220.7	2193.2	2154.8	2120.5	2112.2	2119.1	2110.9	2105.4
17.5°	2408.7	2360.7	2325.0	2274.2	2213.8	2168.5	2130.1	2112.2	2101.3	2084.8	2083.4
20°	2513.0	2449.9	2389.5	2308.5	2228.9	2160.3	2097.1	2050.5	2010.7	1986.0	1976.4
22.5°	2633.8	2540.5	2443.0	2329.1	2215.2	2110.9	1999.7	1920.1	1851.5	1828.1	1817.2
25°	2762.8	2642.0	2496.5	2348.3	2168.5	2001.1	1850.1	1732.1	1641.5	1611.3	1598.9
27.5°	2905.5	2739.5	2551.4	2344.2	2072.4	1844.6	1644.2	1497.4	1408.2	1380.7	1390.3
30°	3086.7	2865.7	2620.1	2301.6	1928.3	1625.0	1390.3	1266.8	1199.5	1173.5	1174.8
32.5°	3328.3	3046.9	2720.3	2211.1	1743.0	1375.2	1169.4	1078.8	1033.5	999.2	996.4
35°	3674.1	3322.8	2813.6	2065.6	1518.0	1152.9	1003.3	931.9	868.8	829.0	835.8
37.5°	4088.6	3670.0	2864.4	1869.3	1265.4	980.0	878.4	805.6	734.3	675.3	682.1
40°	4580.0	4124.3	2860.2	1611.3	1034.8	861.9	774.1	689.0	599.8	546.2	551.7
42.5°	5127.6	4553.9	2771.0	1338.2	857.8	765.8	673.9	566.8	480.4	447.4	448.8
45°	5602.5	4902.5	2614.6	1055.4	721.9	672.5	569.6	459.8	421.4	398.0	396.6
47.5°	5953.8	5157.8	2390.9	830.4	612.1	587.4	468.0	411.7	381.5	362.3	359.6
50°	6150.1	5247.0	2143.8	650.6	517.4	498.2	418.6	373.3	352.7	340.4	337.6
52.5°	6413.6	5354.0	1966.8	513.3	433.7	407.6	385.7	347.2	333.5	323.9	319.8
55°	6830.8	5561.3	1813.0	407.6	361.0	355.5	363.7	332.1	323.9	308.8	303.3
57.5°	6438.3	4995.8	1408.2	315.7	304.7	325.3	351.4	317.0	296.5	282.7	277.2
60°	4530.6	3321.4	708.2	253.9	271.8	304.7	330.8	286.8	266.3	269.0	266.3
62.5°	2497.9	1662.1	318.4	212.7	236.1	269.0	282.7	248.4	234.7	258.0	262.1
65°	816.6	565.5	183.9	164.7	186.7	219.6	244.3	236.1	233.3	260.8	269.0
67.5°	251.2	186.7	124.9	118.0	129.0	162.0	205.9	255.3	274.5	282.7	286.8
70°	188.0	146.9	107.1	100.2	105.7	123.5	174.3	212.7	200.4	201.8	199.0
72.5°	151.0	116.7	92.0	87.8	87.8	85.1	92.0	115.3	130.4	137.2	137.2
75°	105.7	82.3	70.0	64.5	50.8	41.2	37.1	37.1	32.9	31.6	30.2
77.5°	35.7	30.2	27.4	22.0	15.1	12.4	11.0	9.6	6.9	4.1	2.7
80°	5.5	4.1	2.7	2.7	2.7	1.4	1.4	1.4	0.0	0.0	0.0
82.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	0.0	0.0	0.0	0.0
85°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	0.0	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)