

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: P643467

Luminaire Tested: GWS-SA6F-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-722-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

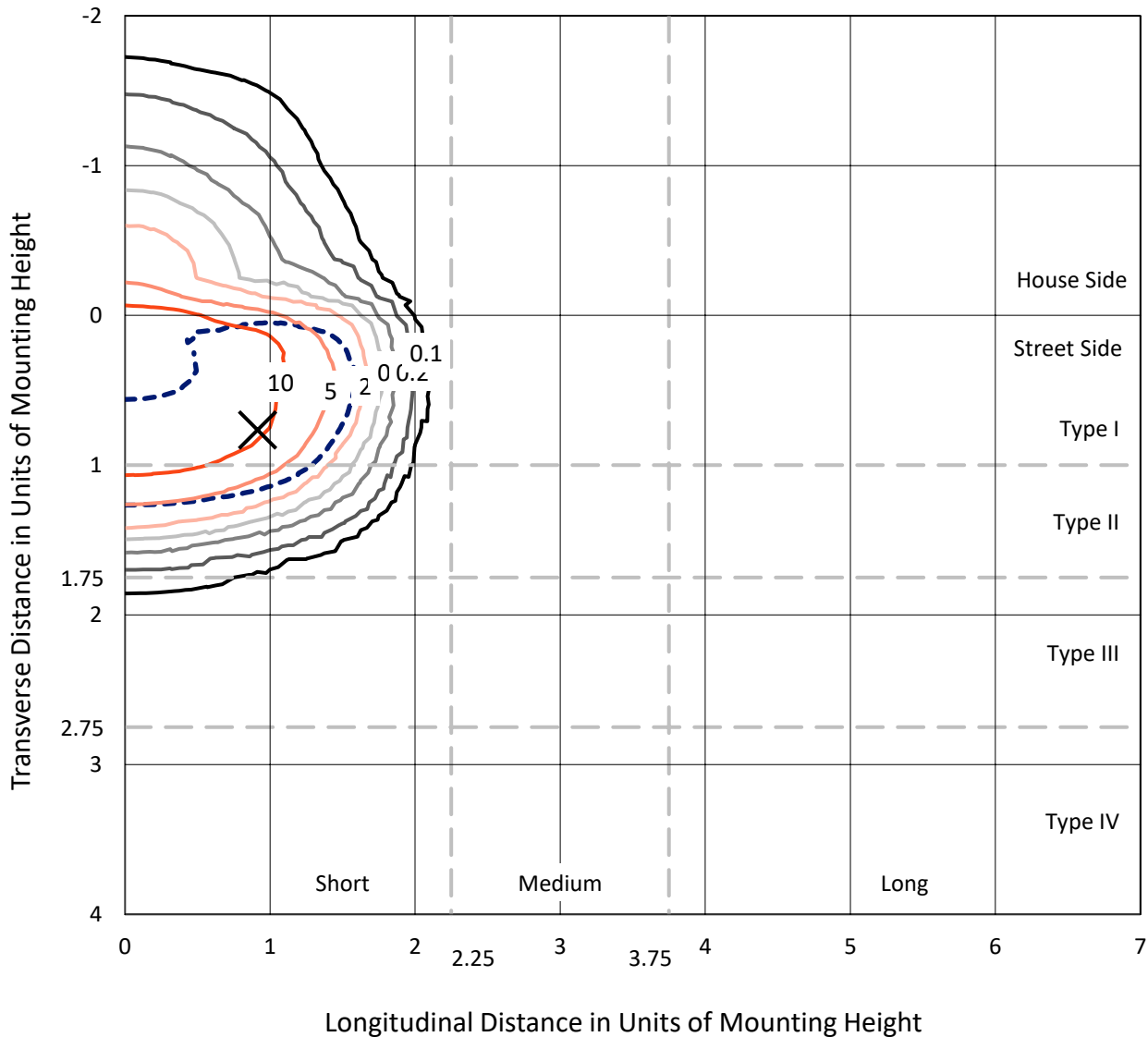
Lumens per Lamp: N/A  
Luminaire Lumens: 27610.6 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

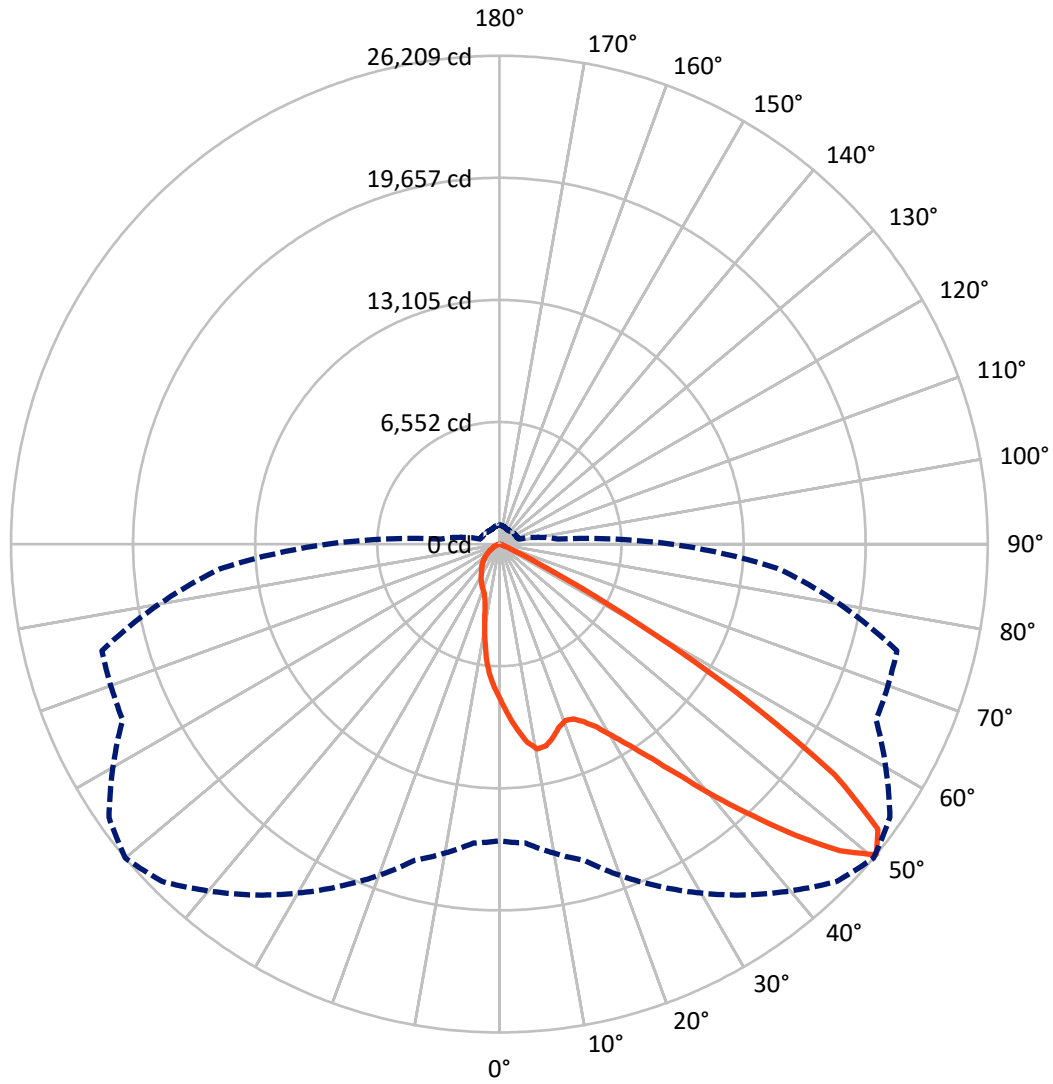
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3547.5	0.0	3547.5
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	24063.1	0.0	24063.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	27610.6	0.0	27610.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	776.0	2.8
10°-20°	2002.1	7.3
20°-30°	3304.1	12.0
30°-40°	5452.5	19.7
40°-50°	8627.1	31.2
50°-60°	6531.7	23.7
60°-70°	817.5	3.0
70°-80°	92.5	0.3
80°-90°	7.1	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°	27610.6	100.0
0°-180°	27610.6	100.0

**Coefficient of Utilization**



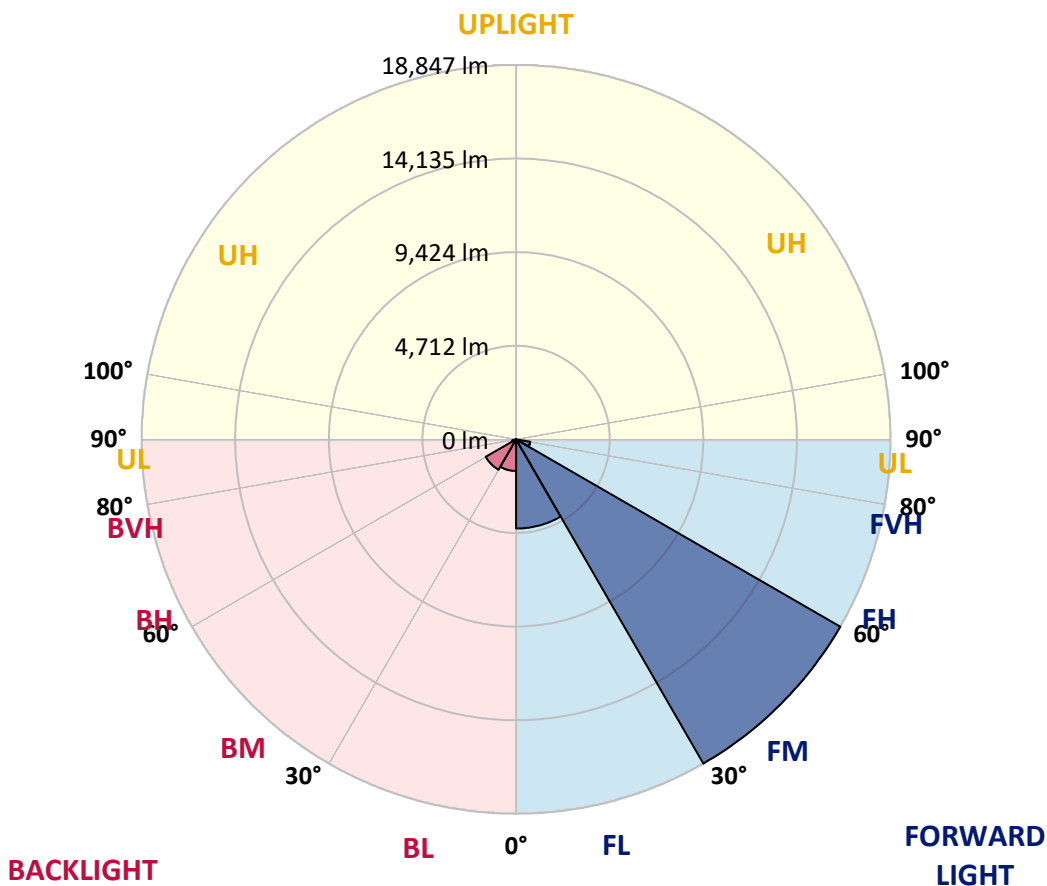
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4489.9	16.3			
FM (30°-60°)	18847.1	68.3			
FH (60°-80°)	722.8	2.6			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	1592.3	5.8	B3/2500		
BM (30°-60°)	1764.3	6.4	B2/2500		
BH (60°-80°)	187.2	0.7	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9
2.5°	9531.7	9608.0	9586.9	9487.1	9379.3	9303.1	9184.8	9148.1	8880.0	8693.4	8496.3
5°	10682.8	10706.5	10680.2	10559.3	10370.1	10188.7	9994.3	9881.3	9431.9	9027.2	8614.6
7.5°	10958.7	10929.8	10979.8	11040.2	11013.9	10935.1	10730.1	10606.6	10070.5	9410.9	8785.4
10°	10096.8	10031.1	10217.7	10530.4	10858.9	11229.4	11176.9	11187.4	10693.3	9894.4	9008.8
12.5°	8953.6	8927.3	9066.6	9429.3	10073.1	10914.1	11116.4	11455.4	11263.6	10417.4	9263.7
15°	8451.6	8464.8	8548.9	8777.5	9240.0	10286.0	10772.2	11384.5	11773.4	10924.6	9544.9
17.5°	8527.8	8575.2	8572.5	8648.7	8929.9	9768.3	10335.9	11161.1	12167.6	11508.0	9868.1
20°	9045.6	9092.9	9021.9	8964.1	9058.7	9636.9	10107.3	10935.1	12433.1	12096.7	10209.8
22.5°	9820.8	9876.0	9707.8	9542.3	9481.8	9852.4	10194.0	10843.1	12635.4	12635.4	10514.6
25°	10759.0	10835.2	10575.1	10280.7	10112.5	10307.0	10564.5	11050.7	12843.0	13119.0	10722.2
27.5°	11807.6	11810.2	11586.8	11255.7	10940.4	10964.0	11119.1	11518.5	13071.7	13639.3	10885.2
30°	12987.6	12995.4	12698.5	12301.7	11904.8	11797.1	11928.5	12230.7	13547.3	14293.7	11111.2
32.5°	14511.8	14548.6	14122.9	13539.4	13024.4	12822.0	12898.2	13216.2	14304.2	15113.6	11450.2
35°	16572.1	16611.6	15983.5	15213.5	14393.5	14088.7	14164.9	14485.5	15400.1	16277.8	11991.5
37.5°	18606.2	18658.8	18022.8	17305.4	16180.6	15676.0	15754.8	16059.7	17045.2	17886.1	12858.8
40°	20012.2	20083.2	19886.1	19402.5	18359.2	17696.9	17791.5	17901.9	18855.9	19809.8	13983.6
42.5°	20753.3	20853.2	20937.3	21184.3	20635.0	20080.5	19920.2	19928.1	20698.1	21770.3	15153.0
45°	20798.0	20895.2	21326.2	22280.2	22698.0	22582.4	22290.7	22093.6	22104.1	23076.4	15883.6
47.5°	19352.6	19533.9	20340.7	22209.2	23780.7	24740.0	24592.8	24125.0	22695.4	23163.2	15804.8
50°	15928.3	16107.0	17573.4	20261.9	22992.3	25601.9	26209.0	25580.9	22309.1	22083.1	14992.7
52.5°	11568.4	11586.8	12538.2	15678.6	19796.7	24012.0	25441.6	25381.2	21720.4	20774.3	13883.7
55°	5495.1	5429.4	6499.0	8848.5	13691.9	19420.9	21830.8	22514.0	20884.7	19828.2	13024.4
57.5°	1600.5	1632.0	2107.7	3453.2	6848.6	12412.0	14950.7	16222.6	17142.4	16301.5	10102.0
60°	717.4	720.1	801.5	1051.2	2281.1	5773.7	7728.9	9303.1	10249.2	9497.6	5011.6
62.5°	520.3	523.0	554.5	593.9	775.3	1955.2	2898.7	3863.2	3934.1	2575.4	1269.3
65°	433.6	433.6	438.9	438.9	465.2	699.0	880.4	1135.3	956.6	709.6	496.7
67.5°	349.5	352.2	357.4	357.4	349.5	349.5	378.4	415.2	444.1	549.3	457.3
70°	273.3	270.7	270.7	273.3	265.4	226.0	244.4	278.6	304.8	428.4	396.8
72.5°	212.9	215.5	212.9	202.4	184.0	134.0	144.5	181.3	194.5	268.1	268.1
75°	160.3	162.9	152.4	115.6	76.2	42.0	55.2	89.4	113.0	131.4	97.2
77.5°	21.0	21.0	15.8	15.8	13.1	15.8	15.8	21.0	31.5	31.5	23.7
80°	2.6	2.6	2.6	5.3	7.9	10.5	10.5	10.5	10.5	13.1	13.1
82.5°	2.6	2.6	2.6	2.6	7.9	7.9	10.5	10.5	10.5	10.5	10.5
85°	0.0	0.0	0.0	2.6	5.3	7.9	7.9	10.5	10.5	10.5	10.5
87.5°	0.0	0.0	0.0	2.6	5.3	7.9	7.9	7.9	10.5	10.5	10.5
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°	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9	8364.9
2.5°	8378.1	8225.6	8041.7	7915.5	7736.8	7618.6	7450.4	7337.4	7240.1	7163.9	7206.0
5°	8380.7	8138.9	7763.1	7442.5	7093.0	6772.3	6428.1	6157.4	5913.0	5802.6	5863.1
7.5°	8433.2	8086.3	7510.8	6940.5	6270.4	5608.1	4987.9	4483.4	4233.7	4115.4	4152.2
10°	8535.7	8062.7	7229.6	6283.5	5195.5	4291.5	3689.7	3348.1	3208.8	3135.2	3148.3
12.5°	8630.3	8046.9	6864.3	5418.9	4099.7	3329.7	3016.9	2969.6	2998.5	3001.2	2998.5
15°	8759.1	8018.0	6412.3	4530.7	3279.7	2877.7	2885.5	2953.9	3022.2	3043.2	3038.0
17.5°	8895.8	7973.3	5828.9	3679.2	2783.0	2746.3	2838.2	2930.2	2998.5	3009.1	3011.7
20°	9037.7	7881.4	5164.0	3003.8	2551.8	2646.4	2748.9	2817.2	2867.1	2882.9	2888.2
22.5°	9103.4	7686.9	4396.6	2520.2	2396.7	2522.9	2599.1	2688.4	2704.2	2646.4	2656.9
25°	9069.2	7358.4	3647.7	2194.4	2241.7	2367.8	2480.8	2436.2	2370.5	2328.4	2341.5
27.5°	8961.5	6922.1	2914.4	1955.2	2076.1	2236.4	2249.6	2199.6	2189.1	2155.0	2165.5
30°	8845.8	6420.2	2344.2	1763.4	1907.9	2076.1	2036.7	2055.1	2057.7	2018.3	2031.4
32.5°	8774.9	5894.6	1865.9	1634.6	1800.2	1831.7	1910.6	1947.3	1950.0	1858.0	1873.8
35°	8798.5	5376.9	1579.4	1529.5	1700.3	1692.4	1802.8	1823.8	1671.4	1545.3	1558.4
37.5°	8990.4	4898.6	1416.5	1448.0	1526.9	1587.3	1671.4	1532.1	1498.0	1440.1	1448.0
40°	9347.8	4491.2	1319.3	1398.1	1408.6	1505.8	1377.1	1395.5	1398.1	1361.3	1369.2
42.5°	9765.6	4152.2	1261.4	1369.2	1342.9	1358.7	1229.9	1266.7	1306.1	1290.3	1293.0
45°	9975.9	3821.1	1211.5	1269.3	1277.2	1127.4	1098.5	1137.9	1187.9	1195.7	1198.4
47.5°	9789.3	3505.7	1158.9	1124.8	1177.3	1027.5	993.4	1006.5	1064.3	1095.9	1101.1
50°	9219.0	3143.1	1080.1	996.0	967.1	922.4	890.9	893.5	959.2	1014.4	1024.9
52.5°	8417.5	2764.7	951.3	843.6	777.9	812.1	819.9	804.2	864.6	919.8	930.3
55°	7639.6	2291.6	754.2	685.9	625.5	699.0	720.1	699.0	717.4	754.2	756.9
57.5°	5379.5	1295.6	578.2	567.6	517.7	599.2	633.3	601.8	570.3	593.9	599.2
60°	2494.0	678.0	444.1	444.1	431.0	515.1	572.9	528.2	467.8	478.3	486.2
62.5°	780.5	428.4	325.9	307.5	352.2	438.9	486.2	441.5	370.5	370.5	381.1
65°	441.5	367.9	257.5	236.5	286.5	352.2	381.1	333.8	270.7	265.4	265.4
67.5°	410.0	349.5	228.6	191.8	202.4	226.0	236.5	205.0	186.6	184.0	186.6
70°	339.0	291.7	184.0	131.4	123.5	120.9	126.1	118.3	113.0	115.6	123.5
72.5°	210.2	176.1	115.6	78.8	68.3	65.7	65.7	65.7	63.1	63.1	63.1
75°	76.2	65.7	52.6	39.4	34.2	31.5	31.5	34.2	31.5	28.9	26.3
77.5°	23.7	21.0	21.0	21.0	18.4	15.8	13.1	13.1	10.5	7.9	7.9
80°	13.1	13.1	13.1	13.1	10.5	10.5	7.9	5.3	2.6	2.6	0.0
82.5°	13.1	13.1	13.1	10.5	10.5	10.5	7.9	5.3	2.6	0.0	0.0
85°	10.5	10.5	10.5	10.5	10.5	10.5	7.9	5.3	2.6	0.0	0.0
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	7.9	5.3	2.6	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)