

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: P636343

Luminaire Tested: GWS-SA3F-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

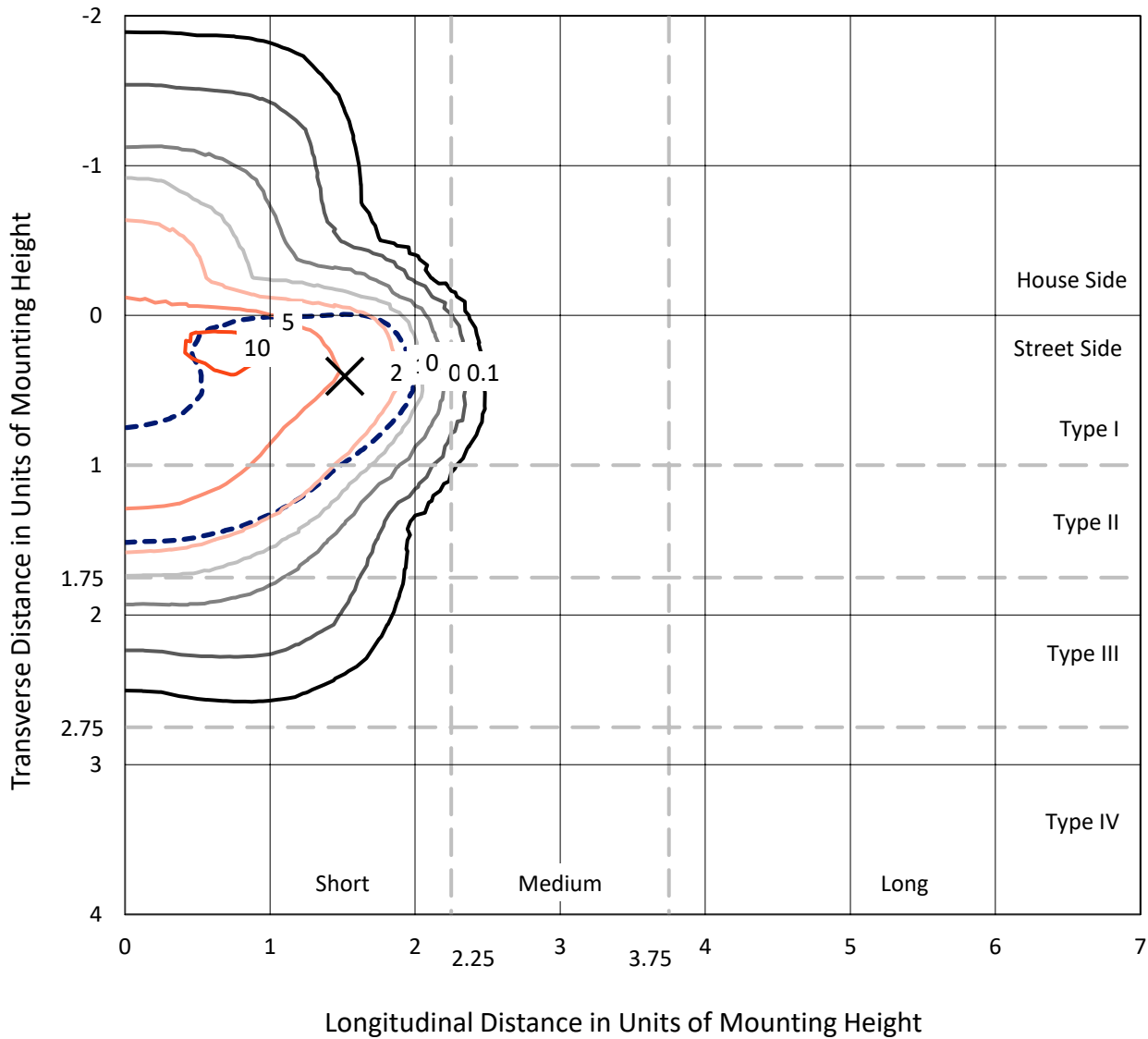
Lumens per Lamp: N/A  
Luminaire Lumens: 14856.5 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

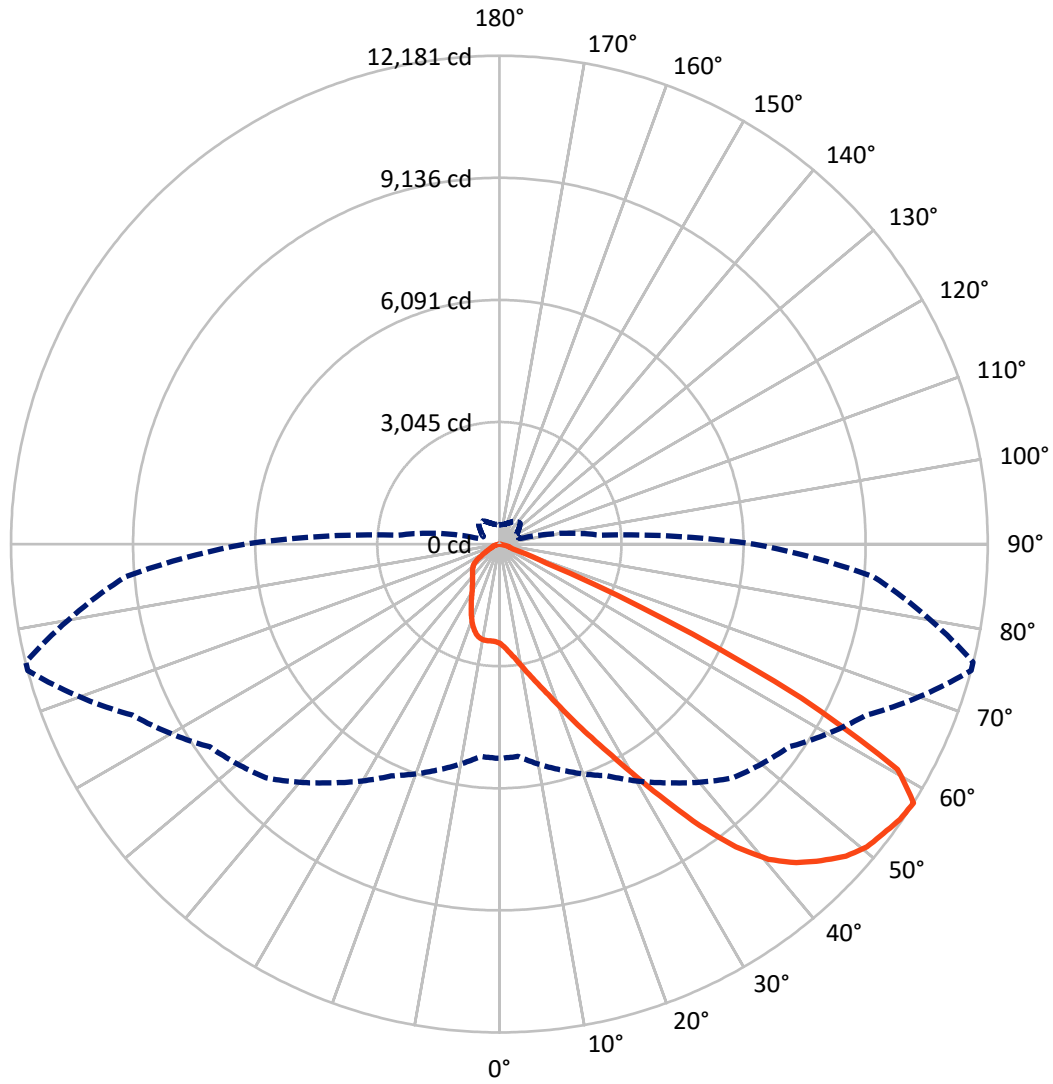
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2426.8	0.0	2426.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	12429.7	0.0	12429.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14856.5	0.0	14856.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.1	1.7
10°-20°	819.1	5.5
20°-30°	1499.9	10.1
30°-40°	2488.5	16.8
40°-50°	3800.5	25.6
50°-60°	4270.5	28.7
60°-70°	1575.2	10.6
70°-80°	150.6	1.0
80°-90°	0.1	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°	14856.5	100.0
0°-180°	14856.5	100.0

**Coefficient of Utilization**



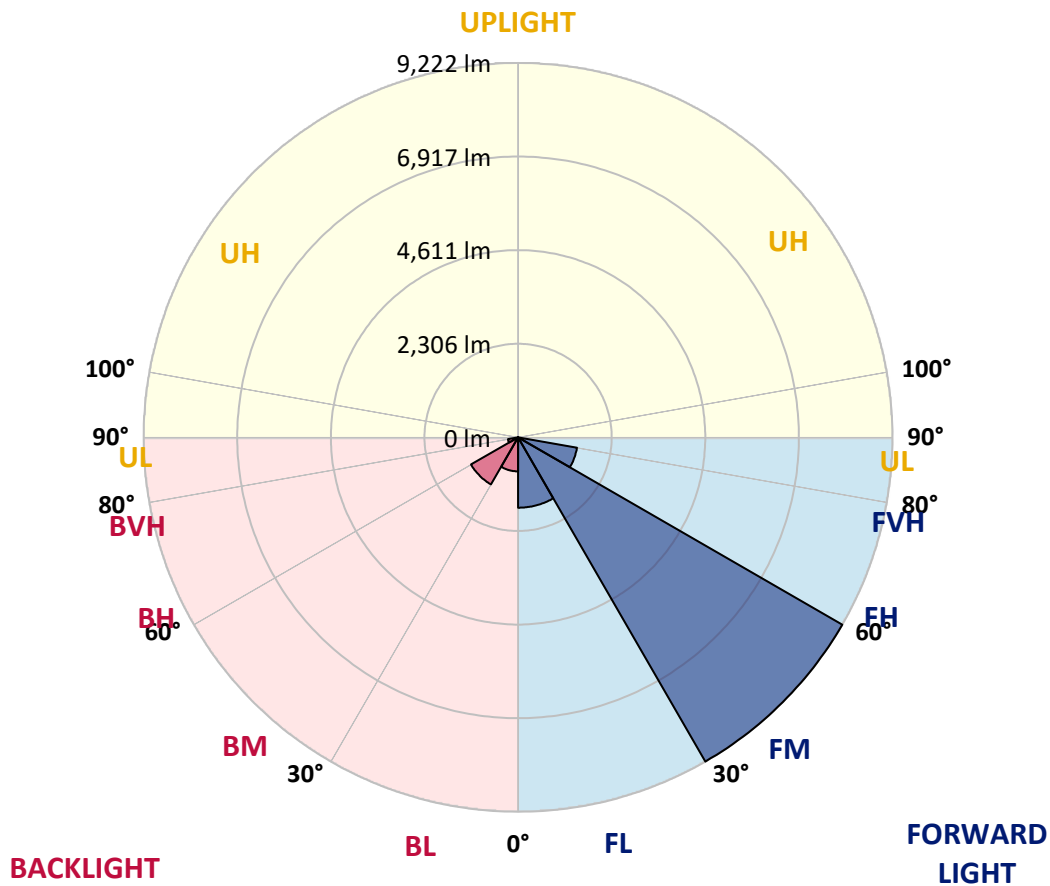
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.7	11.7			
FM (30°-60°)	9222.2	62.1			
FH (60°-80°)	1473.7	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	837.4	5.6	B2/1000		
BM (30°-60°)	1337.3	9.0	B2/2500		
BH (60°-80°)	252.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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°	55°	65°	75°	76°	85°
0°	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9
2.5°	2768.3	2797.0	2788.0	2770.1	2759.4	2721.7	2698.4	2630.3	2581.8	2576.5	2531.6
5°	3117.9	3112.6	3105.4	3083.9	3065.9	3006.8	2936.9	2822.1	2719.9	2707.4	2612.3
7.5°	3309.8	3313.4	3317.0	3313.4	3300.8	3256.0	3178.9	3044.4	2888.4	2877.7	2727.1
10°	3388.7	3395.8	3413.8	3447.8	3478.3	3474.7	3429.9	3291.9	3100.0	3082.1	2879.5
12.5°	3426.3	3435.3	3464.0	3528.5	3611.0	3675.5	3682.7	3559.0	3347.4	3318.8	3060.6
15°	3478.3	3487.3	3523.1	3607.4	3727.5	3854.8	3937.3	3858.4	3621.8	3591.3	3259.6
17.5°	3501.6	3514.2	3566.2	3677.3	3833.3	4028.8	4215.2	4208.1	3946.3	3923.0	3490.9
20°	3546.5	3555.4	3602.0	3722.2	3910.4	4191.9	4505.7	4618.6	4342.5	4308.5	3770.6
22.5°	3688.1	3691.7	3713.2	3788.5	3964.2	4310.3	4801.5	5097.4	4810.5	4765.7	4084.3
25°	3919.4	3917.6	3926.6	3939.1	4068.2	4430.4	5086.6	5637.0	5346.6	5298.2	4439.3
27.5°	4213.4	4213.4	4234.9	4199.1	4251.1	4579.2	5368.1	6257.4	5970.5	5902.4	4828.4
30°	4559.5	4557.7	4607.9	4550.5	4566.6	4814.1	5671.1	6933.3	6723.6	6639.3	5276.7
32.5°	5029.2	5018.5	5075.8	4997.0	4943.2	5169.1	6040.4	7639.8	7625.4	7496.3	5839.6
35°	5622.7	5604.8	5622.7	5545.6	5448.8	5665.7	6524.5	8344.4	8625.9	8489.6	6510.2
37.5°	6212.6	6269.9	6289.7	6157.0	6078.1	6295.0	7107.3	8975.5	9581.5	9439.9	7207.7
40°	6908.2	6890.3	6958.4	6809.6	6759.4	6999.7	7677.4	9445.3	10338.2	10203.7	7828.0
42.5°	7421.0	7453.3	7537.6	7455.1	7415.6	7641.6	8156.1	9719.6	10863.5	10730.8	8270.9
45°	8036.0	8059.3	8091.6	8023.5	7982.2	8204.5	8502.2	9839.7	11263.3	11119.9	8568.5
47.5°	8701.2	8719.1	8719.1	8579.3	8446.6	8538.0	8733.5	9907.8	11630.9	11492.8	8789.0
50°	9178.1	9187.1	9266.0	9167.4	8878.7	8737.0	8839.2	9974.2	11874.7	11745.6	8860.8
52.5°	8755.0	8744.2	9004.2	9208.6	9285.7	9004.2	9022.1	10071.0	11993.0	11881.9	8918.1
55°	7372.6	7354.7	7720.4	8217.1	8896.6	9257.0	9242.7	10128.4	12123.9	12055.8	9126.1
57.5°	5344.8	5314.3	5823.5	6375.7	7266.8	8244.0	8817.7	10096.1	12181.3	12175.9	9368.2
60°	3213.0	3187.9	3668.4	4249.3	4937.8	5920.3	6872.4	9043.6	11413.9	11424.7	8738.8
62.5°	1977.6	2000.9	2434.8	2730.7	2987.1	3282.9	3833.3	6083.5	8455.6	8525.5	6140.9
65°	1330.4	1348.3	1749.9	2122.9	2122.9	1735.6	1489.9	2908.2	4511.1	4392.7	2904.6
67.5°	892.9	912.6	1230.0	1665.7	1728.4	1210.2	604.2	867.8	1256.9	1219.2	719.0
70°	525.3	546.8	819.4	1142.1	1258.7	842.7	403.4	367.6	356.8	346.0	279.7
72.5°	234.9	243.8	417.8	580.9	530.7	355.0	285.1	294.0	277.9	272.5	227.7
75°	71.7	75.3	107.6	125.5	127.3	127.3	172.1	231.3	218.7	220.5	175.7
77.5°	17.9	17.9	28.7	26.9	14.3	12.6	32.3	52.0	53.8	48.4	35.9
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9	2477.9
2.5°	2511.9	2465.3	2434.8	2391.8	2361.3	2329.0	2300.4	2277.0	2264.5	2260.9	2262.7
5°	2569.3	2495.8	2424.1	2341.6	2284.2	2230.4	2187.4	2153.3	2137.2	2131.8	2131.8
7.5°	2657.2	2555.0	2427.7	2298.6	2201.7	2117.5	2067.3	2029.6	2015.3	2011.7	2000.9
10°	2771.9	2632.1	2422.3	2221.5	2085.2	1997.3	1961.5	1950.7	1956.1	1957.9	1956.1
12.5°	2910.0	2712.7	2388.2	2108.5	1961.5	1907.7	1911.3	1940.0	1972.2	1988.4	1992.0
15°	3057.0	2786.2	2311.1	1974.0	1855.7	1853.9	1905.9	1972.2	2035.0	2061.9	2069.1
17.5°	3221.9	2845.4	2192.8	1830.6	1764.3	1816.3	1909.5	2011.7	2096.0	2140.8	2149.7
20°	3403.0	2893.8	2042.2	1696.1	1683.6	1776.8	1905.9	2031.4	2135.4	2185.6	2194.6
22.5°	3591.3	2927.9	1868.3	1572.4	1610.1	1732.0	1871.8	1993.8	2092.4	2149.7	2156.9
25°	3806.4	2931.5	1690.8	1468.4	1541.9	1671.0	1789.4	1889.8	1972.2	2022.4	2027.8
27.5°	3994.7	2888.4	1533.0	1384.2	1479.2	1595.7	1674.6	1730.2	1787.6	1816.3	1818.1
30°	4211.6	2813.1	1384.2	1316.0	1414.6	1502.5	1541.9	1554.5	1559.9	1565.2	1558.1
32.5°	4469.8	2721.7	1273.0	1249.7	1341.1	1400.3	1411.1	1386.0	1355.5	1312.4	1301.7
35°	4787.2	2639.2	1181.6	1185.1	1260.4	1296.3	1287.3	1233.5	1174.4	1122.4	1113.4
37.5°	5131.4	2569.3	1111.6	1122.4	1172.6	1197.7	1170.8	1111.6	1084.7	1039.9	1041.7
40°	5436.2	2511.9	1048.9	1059.6	1082.9	1106.3	1063.2	1023.8	1074.0	1070.4	1074.0
42.5°	5653.2	2463.5	995.1	989.7	1005.8	1022.0	989.7	970.0	1054.3	1030.9	1043.5
45°	5780.5	2418.7	950.3	918.0	943.1	971.8	950.3	925.2	953.8	846.3	837.3
47.5°	5866.5	2393.6	910.8	848.1	892.9	943.1	898.3	837.3	796.1	702.8	695.7
50°	5875.5	2381.0	864.2	776.3	833.7	887.5	835.5	751.2	692.1	650.8	645.5
52.5°	5922.1	2406.1	799.7	684.9	747.7	833.7	797.9	713.6	632.9	597.1	589.9
55°	6130.1	2511.9	692.1	559.4	650.8	792.5	767.4	636.5	559.4	537.9	532.5
57.5°	6345.3	2533.4	545.1	442.9	566.6	733.3	701.0	586.3	511.0	485.9	480.5
60°	5802.0	2087.0	408.8	365.8	500.2	677.7	649.0	555.8	468.0	437.5	432.1
62.5°	3811.8	1127.8	324.5	310.2	421.3	573.7	591.7	502.0	417.8	385.5	383.7
65°	1757.1	523.5	249.2	245.6	329.9	457.2	509.2	439.3	353.2	324.5	324.5
67.5°	478.7	260.0	195.4	181.1	224.1	306.6	371.1	328.1	251.0	216.9	215.2
70°	238.5	209.8	175.7	156.0	161.4	190.1	218.7	182.9	127.3	104.0	102.2
72.5°	195.4	172.1	148.8	132.7	121.9	116.5	113.0	91.4	59.2	44.8	43.0
75°	145.2	123.7	105.8	86.1	73.5	68.1	61.0	44.8	25.1	14.3	12.6
77.5°	32.3	30.5	28.7	21.5	19.7	16.1	12.6	9.0	3.6	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)