

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: P641238

Luminaire Tested: GWS-SA5F-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641238  
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-SA5F-740-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

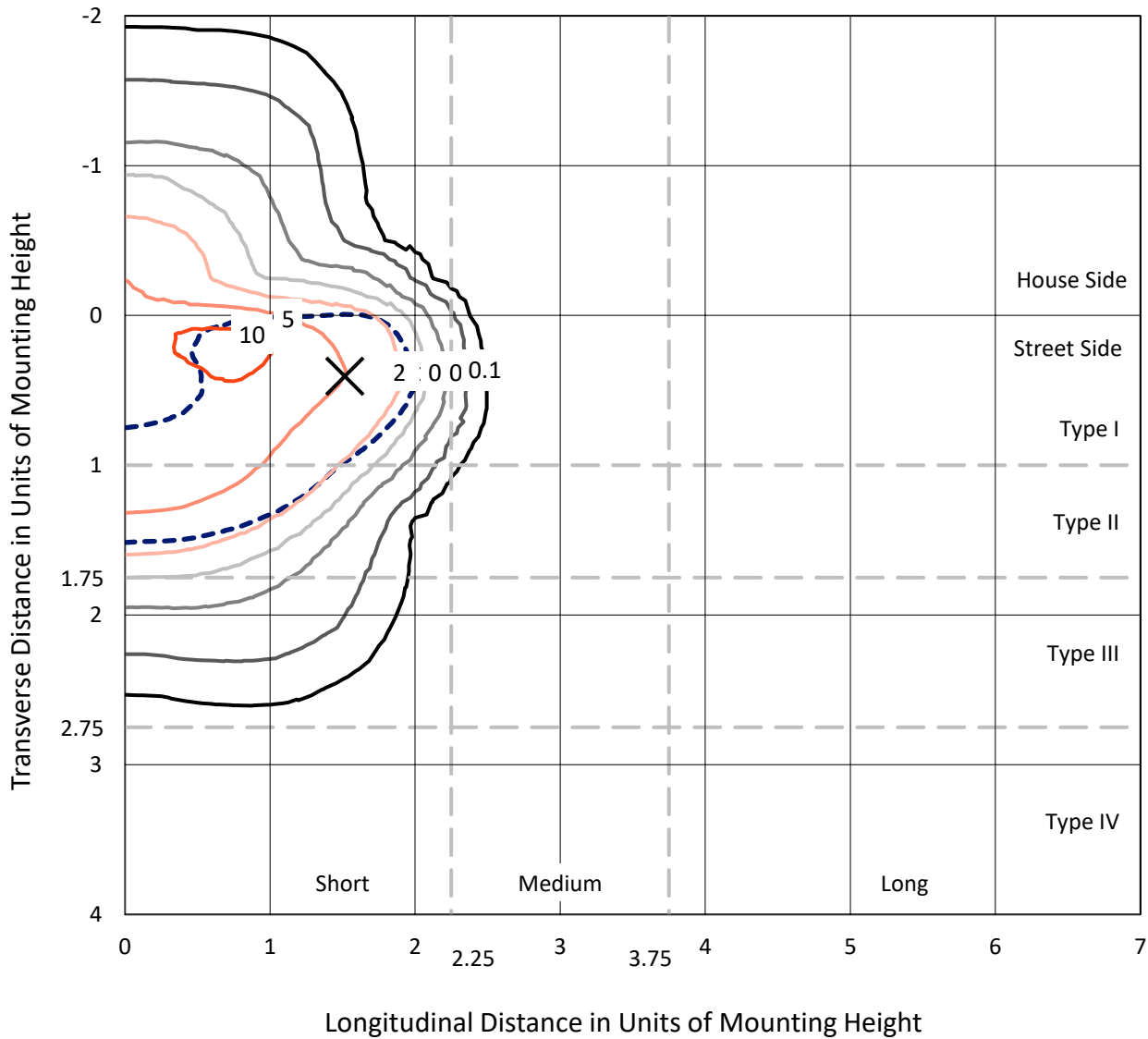
Lumens per Lamp: N/A  
Luminaire Lumens: 24792.6 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

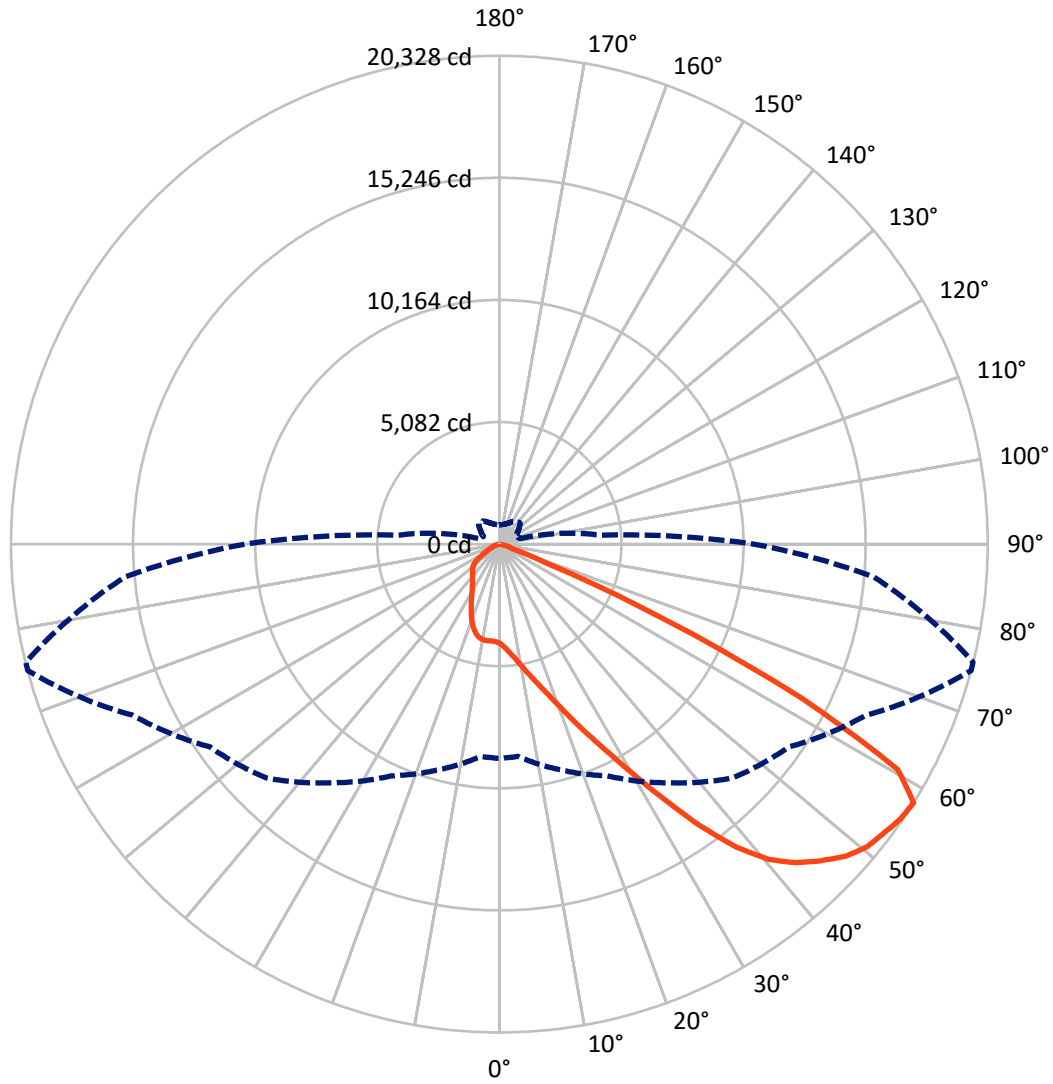
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	4049.8	0.0	4049.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20742.8	0.0	20742.8
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	24792.6	0.0	24792.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.8	1.7
10°-20°	1366.9	5.5
20°-30°	2503.1	10.1
30°-40°	4152.8	16.8
40°-50°	6342.3	25.6
50°-60°	7126.7	28.7
60°-70°	2628.6	10.6
70°-80°	251.3	1.0
80°-90°	0.2	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°	24792.6	100.0
0°-180°	24792.6	100.0

**Coefficient of Utilization**



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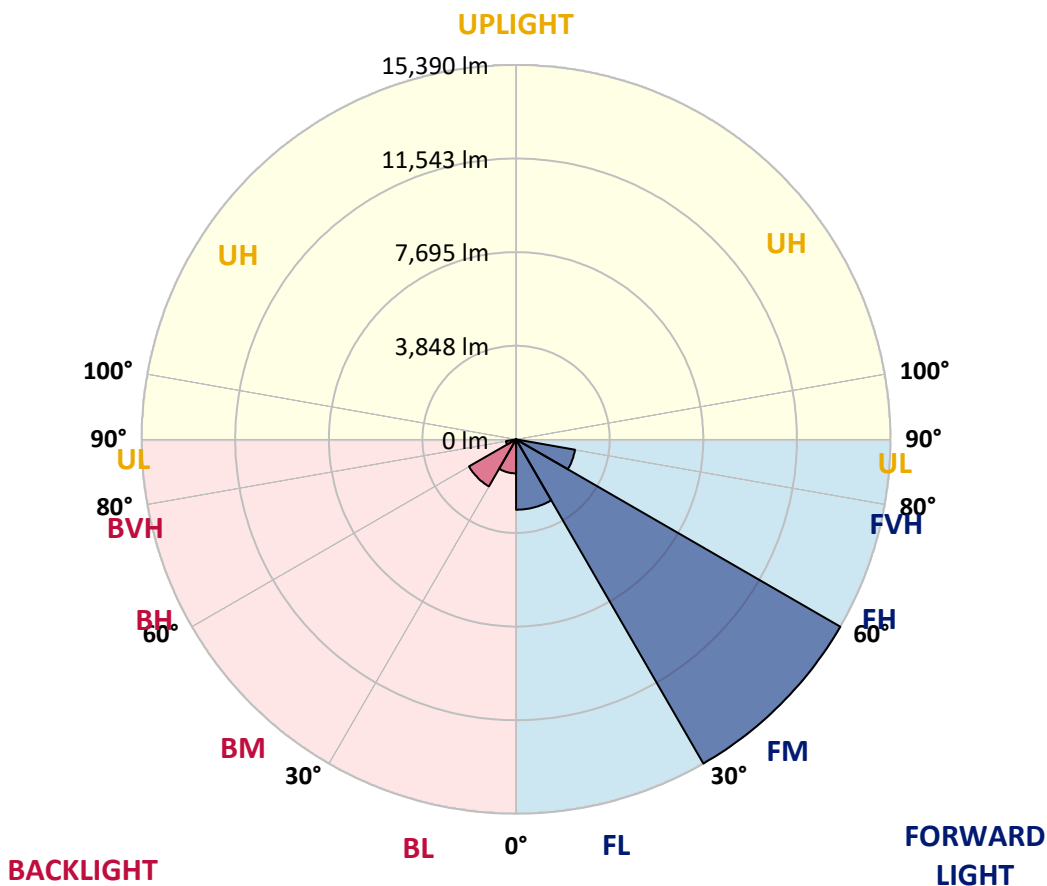
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2893.2	11.7			
FM (30°-60°)	15390.1	62.1			
FH (60°-80°)	2459.3	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1397.4	5.6	B3/2500		
BM (30°-60°)	2231.7	9.0	B2/2500		
BH (60°-80°)	420.6	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: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1
2.5°	4619.8	4667.7	4652.7	4622.8	4604.8	4542.0	4503.1	4389.4	4308.6	4299.6	4224.8
5°	5203.2	5194.3	5182.3	5146.4	5116.5	5017.7	4901.0	4709.5	4539.0	4518.0	4359.5
7.5°	5523.4	5529.4	5535.4	5529.4	5508.4	5433.6	5305.0	5080.6	4820.2	4802.3	4551.0
10°	5655.0	5667.0	5696.9	5753.8	5804.6	5798.7	5723.9	5493.5	5173.3	5143.4	4805.3
12.5°	5717.9	5732.8	5780.7	5888.4	6026.1	6133.8	6145.7	5939.3	5586.2	5538.3	5107.5
15°	5804.6	5819.6	5879.4	6020.1	6220.5	6433.0	6570.6	6439.0	6044.0	5993.1	5439.6
17.5°	5843.5	5864.5	5951.3	6136.8	6397.1	6723.2	7034.4	7022.4	6585.6	6546.7	5825.6
20°	5918.3	5933.3	6011.1	6211.6	6525.7	6995.5	7519.1	7707.6	7246.8	7190.0	6292.4
22.5°	6154.7	6160.7	6196.6	6322.3	6615.5	7193.0	8012.8	8506.5	8027.8	7953.0	6816.0
25°	6540.7	6537.7	6552.7	6573.6	6789.0	7393.4	8488.5	9407.1	8922.4	8841.6	7408.4
27.5°	7031.4	7031.4	7067.3	7007.5	7094.2	7641.8	8958.3	10442.4	9963.6	9849.9	8057.7
30°	7608.9	7605.9	7689.7	7593.9	7620.8	8033.7	9464.0	11570.4	11220.3	11079.7	8805.7
32.5°	8392.8	8374.8	8470.6	8338.9	8249.2	8626.2	10080.3	12749.3	12725.3	12509.9	9745.2
35°	9383.2	9353.3	9383.2	9254.5	9092.9	9455.0	10888.2	13925.2	14394.9	14167.5	10864.3
37.5°	10367.6	10463.3	10496.2	10274.8	10143.2	10505.2	11860.6	14978.4	15989.7	15753.3	12028.2
40°	11528.5	11498.6	11612.3	11363.9	11280.2	11681.1	12812.1	15762.3	17252.4	17028.0	13063.4
42.5°	12384.2	12438.1	12578.7	12441.1	12375.3	12752.3	13611.0	16220.1	18129.0	17907.6	13802.5
45°	13410.5	13449.4	13503.3	13389.6	13320.8	13691.8	14188.5	16420.6	18796.3	18556.9	14299.2
47.5°	14520.6	14550.5	14550.5	14317.1	14095.7	14248.3	14574.4	16534.3	19409.7	19179.3	14667.2
50°	15316.5	15331.4	15463.1	15298.5	14816.8	14580.4	14751.0	16645.0	19816.6	19601.1	14786.9
52.5°	14610.3	14592.4	15026.2	15367.3	15496.0	15026.2	15056.2	16806.5	20014.1	19828.5	14882.6
55°	12303.5	12273.5	12883.9	13712.7	14846.7	15448.1	15424.2	16902.3	20232.5	20118.8	15229.7
57.5°	8919.4	8868.5	9718.3	10639.9	12126.9	13757.6	14715.1	16848.4	20328.2	20319.2	15633.6
60°	5361.8	5319.9	6121.8	7091.2	8240.2	9879.9	11468.7	15092.1	19047.6	19065.6	14583.4
62.5°	3300.3	3339.2	4063.3	4556.9	4984.8	5478.5	6397.1	10152.1	14110.7	14227.4	10247.9
65°	2220.1	2250.0	2920.3	3542.6	3542.6	2896.3	2486.4	4853.2	7528.1	7330.6	4847.2
67.5°	1490.1	1523.0	2052.6	2779.6	2884.4	2019.7	1008.3	1448.2	2097.5	2034.6	1199.8
70°	876.7	912.6	1367.4	1906.0	2100.4	1406.3	673.2	613.4	595.4	577.5	466.8
72.5°	392.0	406.9	697.2	969.4	885.7	592.4	475.7	490.7	463.8	454.8	380.0
75°	119.7	125.7	179.5	209.4	212.4	212.4	287.2	386.0	365.0	368.0	293.2
77.5°	29.9	29.9	47.9	44.9	23.9	20.9	53.9	86.8	89.8	80.8	59.8
80°	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1	4135.1
2.5°	4191.9	4114.1	4063.3	3991.4	3940.6	3886.7	3838.8	3799.9	3779.0	3773.0	3776.0
5°	4287.7	4165.0	4045.3	3907.7	3811.9	3722.2	3650.3	3593.5	3566.6	3557.6	3557.6
7.5°	4434.3	4263.7	4051.3	3835.9	3674.3	3533.7	3449.9	3387.0	3363.1	3357.1	3339.2
10°	4625.8	4392.4	4042.3	3707.2	3479.8	3333.2	3273.3	3255.4	3264.4	3267.4	3264.4
12.5°	4856.2	4527.0	3985.5	3518.7	3273.3	3183.6	3189.6	3237.4	3291.3	3318.2	3324.2
15°	5101.5	4649.7	3856.8	3294.3	3096.8	3093.8	3180.6	3291.3	3396.0	3440.9	3452.9
17.5°	5376.8	4748.4	3659.3	3054.9	2944.2	3031.0	3186.6	3357.1	3497.7	3572.5	3587.5
20°	5679.0	4829.2	3408.0	2830.5	2809.6	2965.2	3180.6	3390.0	3563.6	3647.4	3662.3
22.5°	5993.1	4886.1	3117.8	2624.1	2686.9	2890.4	3123.7	3327.2	3491.8	3587.5	3599.5
25°	6352.2	4892.1	2821.5	2450.5	2573.2	2788.6	2986.1	3153.7	3291.3	3375.1	3384.0
27.5°	6666.4	4820.2	2558.2	2309.9	2468.5	2663.0	2794.6	2887.4	2983.1	3031.0	3034.0
30°	7028.4	4694.6	2309.9	2196.2	2360.8	2507.4	2573.2	2594.1	2603.1	2612.1	2600.1
32.5°	7459.3	4542.0	2124.4	2085.5	2238.1	2336.8	2354.8	2312.9	2262.0	2190.2	2172.3
35°	7988.9	4404.3	1971.8	1977.8	2103.4	2163.3	2148.3	2058.6	1959.8	1873.0	1858.1
37.5°	8563.3	4287.7	1855.1	1873.0	1956.8	1998.7	1953.8	1855.1	1810.2	1735.4	1738.4
40°	9072.0	4191.9	1750.4	1768.3	1807.2	1846.1	1774.3	1708.5	1792.3	1786.3	1792.3
42.5°	9434.0	4111.1	1660.6	1651.6	1678.6	1705.5	1651.6	1618.7	1759.3	1720.4	1741.4
45°	9646.5	4036.3	1585.8	1531.9	1573.8	1621.7	1585.8	1543.9	1591.8	1412.3	1397.3
47.5°	9790.1	3994.4	1520.0	1415.3	1490.1	1573.8	1499.0	1397.3	1328.5	1172.9	1160.9
50°	9805.1	3973.5	1442.2	1295.6	1391.3	1481.1	1394.3	1253.7	1154.9	1086.1	1077.2
52.5°	9882.9	4015.4	1334.5	1143.0	1247.7	1391.3	1331.5	1190.8	1056.2	996.4	984.4
55°	10229.9	4191.9	1154.9	933.5	1086.1	1322.5	1280.6	1062.2	933.5	897.6	888.6
57.5°	10589.0	4227.8	909.6	739.0	945.5	1223.8	1169.9	978.4	852.7	810.9	801.9
60°	9682.4	3482.8	682.2	610.4	834.8	1131.0	1083.1	927.5	780.9	730.1	721.1
62.5°	6361.2	1882.0	541.6	517.6	703.1	957.5	987.4	837.8	697.2	643.3	640.3
65°	2932.2	873.7	415.9	409.9	550.5	763.0	849.8	733.1	589.4	541.6	541.6
67.5°	798.9	433.9	326.1	302.2	374.0	511.6	619.4	547.6	418.9	362.0	359.1
70°	397.9	350.1	293.2	260.3	269.3	317.2	365.0	305.2	212.4	173.5	170.5
72.5°	326.1	287.2	248.3	221.4	203.5	194.5	188.5	152.6	98.7	74.8	71.8
75°	242.4	206.5	176.5	143.6	122.7	113.7	101.7	74.8	41.9	23.9	20.9
77.5°	53.9	50.9	47.9	35.9	32.9	26.9	20.9	15.0	6.0	0.0	0.0
80°	3.0	3.0	3.0	3.0	3.0	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)