

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: P640150

Luminaire Tested: GWS-SA5D-730-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

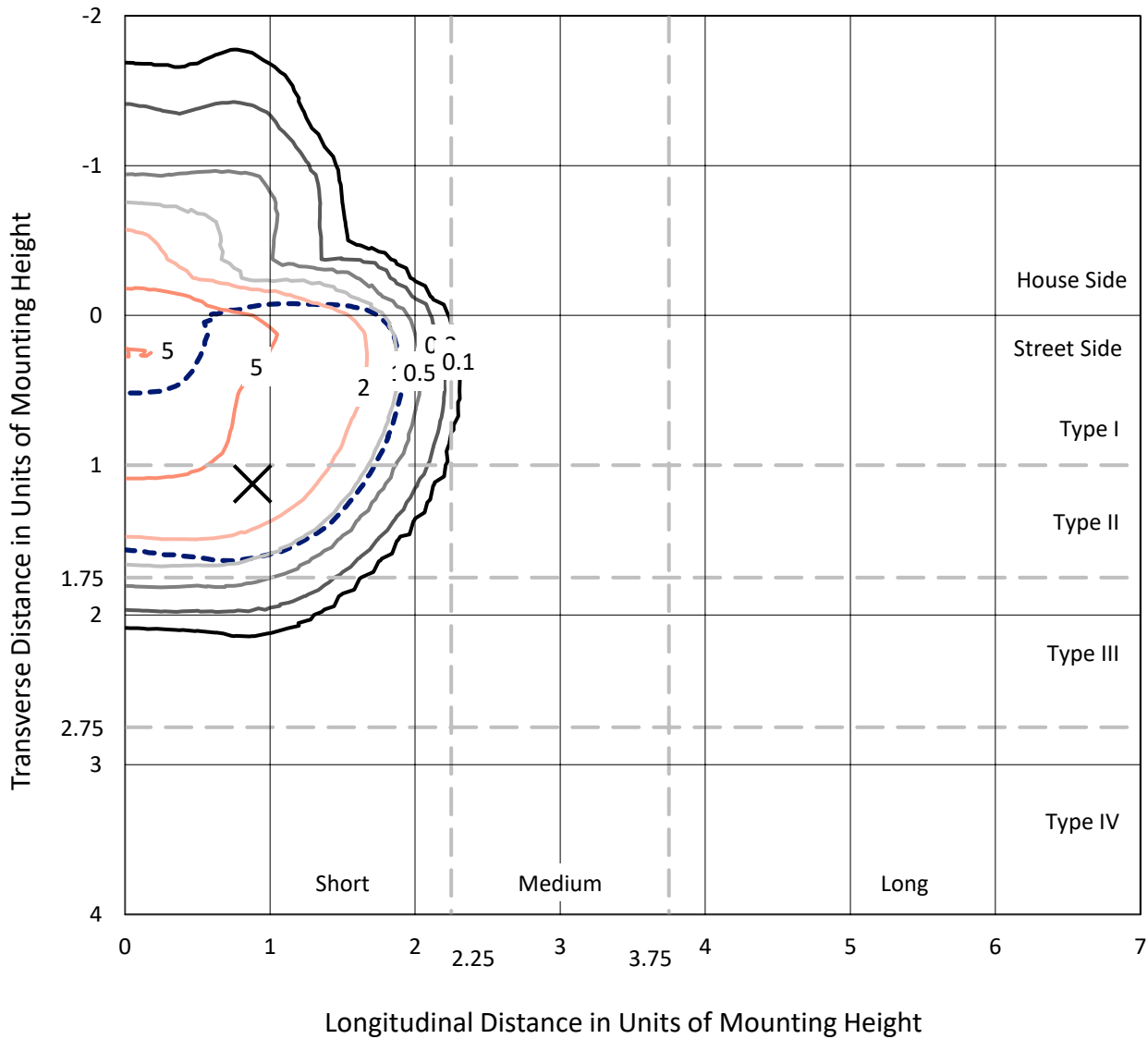
Lumens per Lamp: N/A  
Luminaire Lumens: 17157.3 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

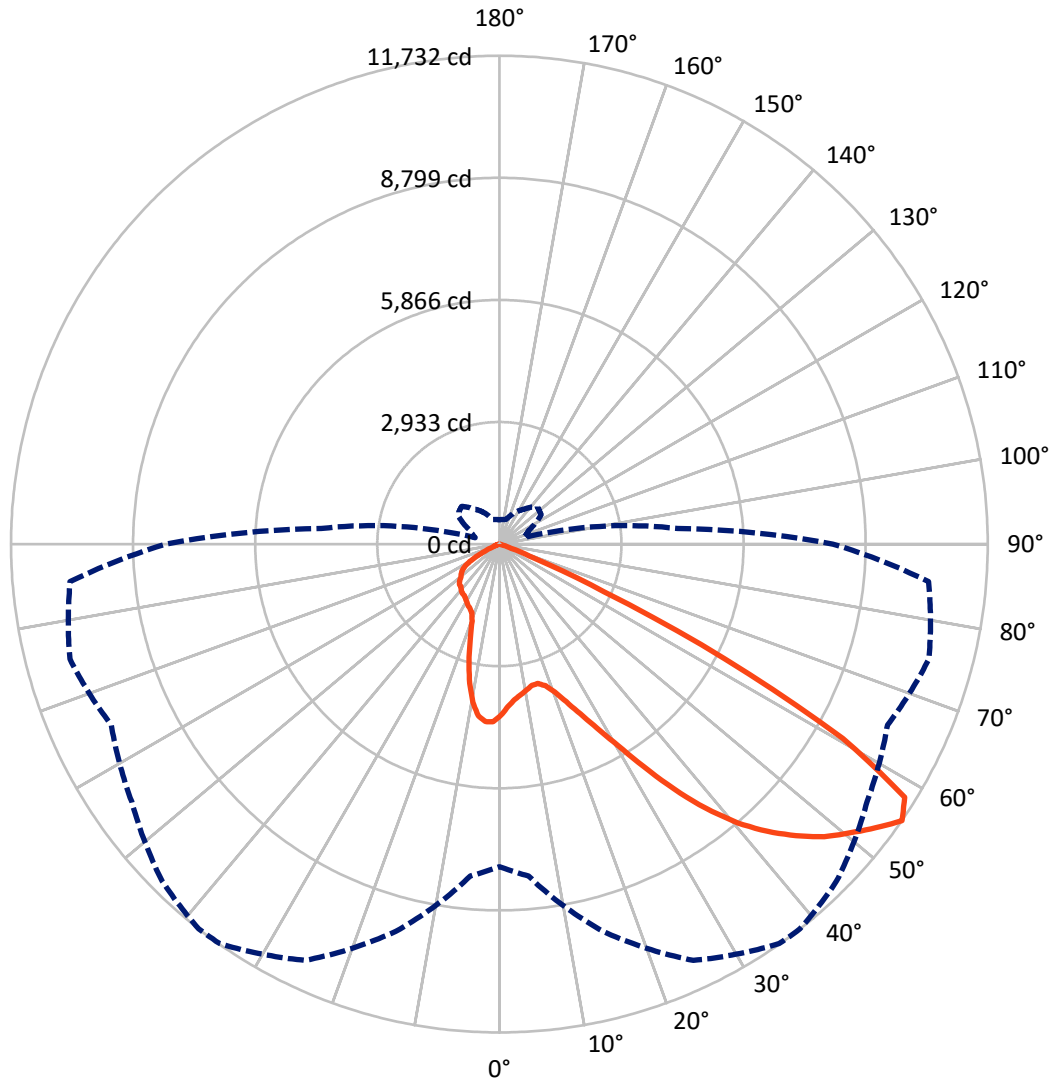
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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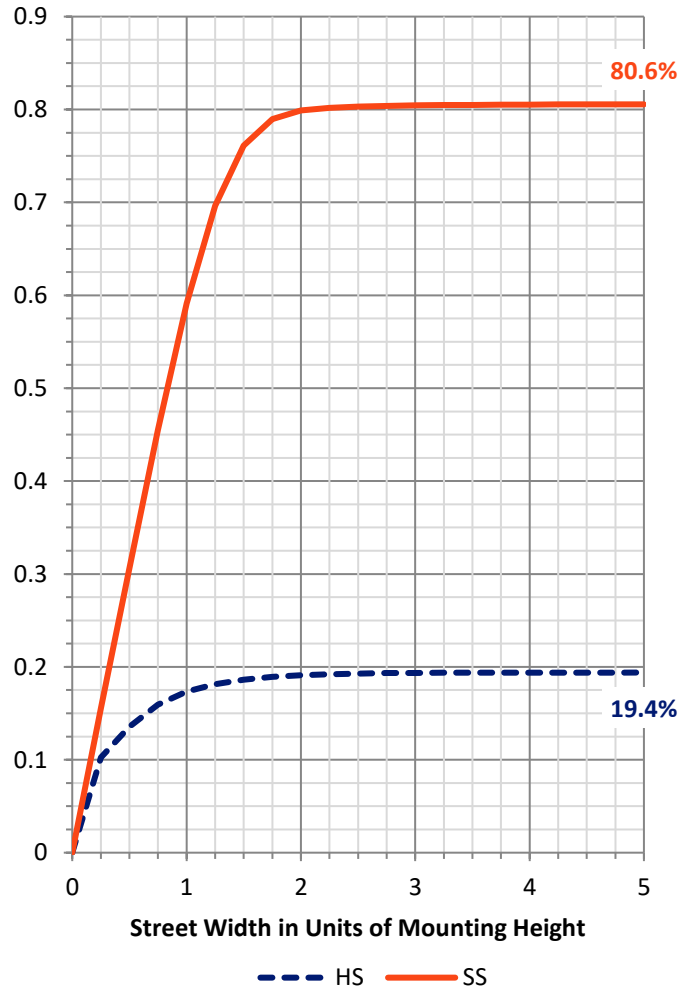
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3342.8	0.0	3342.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	13814.5	0.0	13814.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	17157.3	0.0	17157.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	2.2
10°-20°	1024.2	6.0
20°-30°	1757.5	10.2
30°-40°	2915.0	17.0
40°-50°	4285.2	25.0
50°-60°	5007.4	29.2
60°-70°	1697.3	9.9
70°-80°	86.8	0.5
80°-90°	3.4	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°	17157.3	100.0
0°-180°	17157.3	100.0

**Coefficient of Utilization**



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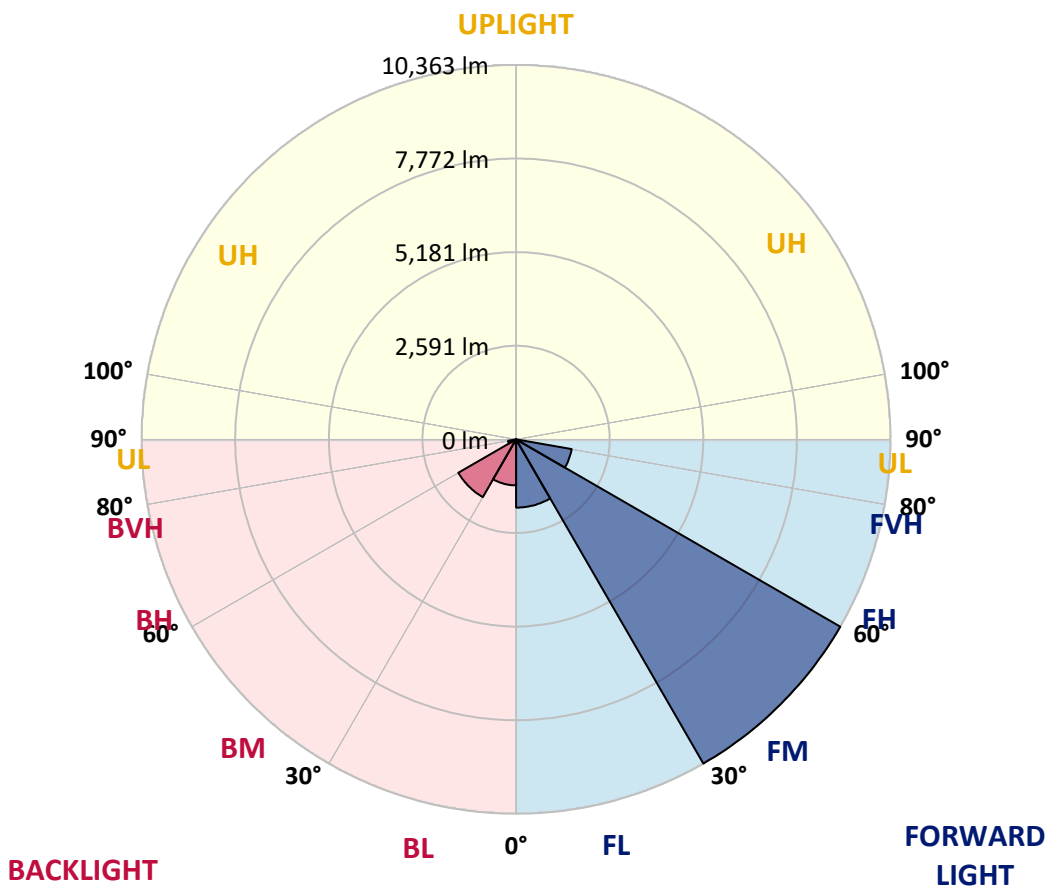
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.6	11.0			
FM (30°-60°)	10362.5	60.4			
FH (60°-80°)	1561.6	9.1			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1273.6	7.4	B3/2500		
BM (30°-60°)	1845.1	10.8	B2/2500		
BH (60°-80°)	222.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	38°	45°	55°	65°	75°	85°
0°	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5
2.5°	3832.0	3824.2	3839.9	3871.3	3900.7	3910.5	3939.9	3981.1	4006.6	4067.4	4116.4
5°	3659.5	3655.5	3671.2	3698.7	3737.9	3751.6	3796.7	3865.4	3934.0	4039.9	4143.9
7.5°	3502.6	3500.6	3524.2	3584.9	3641.8	3659.5	3714.4	3798.7	3890.9	4053.7	4206.6
10°	3296.7	3298.6	3343.7	3430.0	3534.0	3569.3	3657.5	3779.1	3898.7	4108.6	4320.4
12.5°	3230.0	3233.9	3257.4	3324.1	3437.9	3483.0	3606.5	3790.9	3943.8	4187.0	4467.5
15°	3392.8	3392.8	3373.1	3381.0	3432.0	3473.2	3602.6	3830.1	4020.3	4281.1	4612.6
17.5°	3708.5	3696.7	3647.7	3581.0	3563.4	3577.1	3681.0	3914.4	4128.2	4391.0	4777.3
20°	4136.0	4139.9	4043.9	3904.6	3792.8	3790.9	3853.6	4063.5	4283.1	4522.4	4955.8
22.5°	4653.8	4638.1	4510.6	4320.4	4126.2	4110.5	4136.0	4291.0	4506.7	4730.2	5175.4
25°	5253.9	5246.0	5065.6	4810.7	4553.7	4516.5	4516.5	4669.5	4826.3	5026.4	5438.2
27.5°	5881.4	5881.4	5706.9	5412.7	5071.5	5004.8	4995.0	5175.4	5279.4	5318.6	5659.8
30°	6526.6	6518.8	6346.2	6044.2	5679.4	5610.8	5583.3	5716.7	5791.2	5673.6	5936.3
32.5°	7181.7	7195.4	7020.8	6740.4	6414.9	6369.8	6285.4	6285.4	6346.2	6181.5	6371.7
35°	7885.7	7881.8	7744.5	7554.3	7275.8	7224.8	7085.6	6867.9	6960.1	6887.5	6973.8
37.5°	8507.4	8536.8	8470.1	8328.9	8103.4	8052.4	7822.9	7428.8	7499.4	7613.1	7689.6
40°	9138.9	9162.4	9229.1	9184.0	8899.6	8805.5	8397.6	7750.4	7828.8	8219.1	8438.7
42.5°	9758.6	9770.4	9905.7	9980.2	9599.7	9435.0	8832.9	7946.5	8028.9	8693.7	9078.1
45°	10152.8	10178.3	10401.8	10629.3	10217.5	9992.0	9211.4	8197.5	8232.8	9023.2	9550.7
47.5°	10137.1	10195.9	10615.6	11029.4	10749.0	10505.8	9666.4	8599.6	8540.7	9333.0	9862.5
50°	9821.3	9891.9	10494.0	11151.0	11131.4	10905.8	10172.4	9182.0	8997.7	9607.6	9901.7
52.5°	9166.3	9370.3	10280.2	11166.7	11439.3	11325.5	10798.0	9966.5	9615.4	10001.8	9964.5
55°	7750.4	8001.4	9631.1	11033.3	11717.8	11731.5	11455.0	10784.3	10286.1	10680.3	10350.8
57.5°	5883.4	6083.4	7413.1	9821.3	11256.9	11482.4	11709.9	11215.7	10699.9	11143.1	10441.1
60°	3545.7	3777.1	4642.0	7207.2	9091.8	9476.2	10368.5	10272.4	9650.7	9841.0	8562.3
62.5°	1437.5	1559.1	2143.5	3971.3	5722.6	6081.5	6936.5	7081.6	6928.7	6734.5	5193.1
65°	525.6	574.6	859.0	1641.5	2631.8	2763.2	3214.3	3471.2	3683.0	3135.8	1931.7
67.5°	325.5	356.9	558.9	843.3	957.0	890.4	906.0	1080.6	1031.6	637.4	345.2
70°	241.2	266.7	437.3	584.4	386.3	298.1	202.0	215.7	194.2	170.6	168.7
72.5°	166.7	190.2	327.5	345.2	149.0	105.9	74.5	103.9	117.7	115.7	119.6
75°	109.8	127.5	205.9	135.3	37.3	29.4	25.5	54.9	70.6	70.6	72.6
77.5°	64.7	74.5	72.6	27.5	7.8	7.8	5.9	9.8	15.7	17.7	21.6
80°	7.8	5.9	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9	5.9
82.5°	2.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	3.9	5.9	5.9
85°	0.0	0.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	5.9	5.9
87.5°	0.0	0.0	2.0	2.0	3.9	3.9	3.9	3.9	3.9	5.9	5.9
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°	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5	4114.5
2.5°	4153.7	4139.9	4196.8	4238.0	4271.3	4287.0	4265.5	4263.5	4263.5	4220.4	4208.6
5°	4202.7	4208.6	4289.0	4324.3	4330.2	4310.6	4261.5	4228.2	4208.6	4163.5	4138.0
7.5°	4296.8	4316.4	4392.9	4387.0	4334.1	4243.9	4114.5	4014.4	3949.7	3879.1	3836.0
10°	4432.2	4469.4	4516.5	4434.1	4265.5	4036.0	3769.3	3579.1	3465.3	3384.9	3335.9
12.5°	4596.9	4634.2	4618.5	4424.3	4073.3	3663.4	3320.2	3045.6	2914.2	2841.7	2790.7
15°	4763.6	4787.1	4685.1	4306.6	3734.0	3182.9	2800.5	2527.9	2367.1	2308.3	2265.1
17.5°	4934.2	4928.3	4696.9	4075.2	3281.0	2641.6	2265.1	2078.8	2033.7	2023.9	2020.0
20°	5112.7	5059.7	4649.8	3743.8	2735.8	2106.3	1892.5	1904.3	1986.6	2025.8	2033.7
22.5°	5316.6	5183.3	4532.2	3294.7	2178.8	1755.2	1776.8	1892.5	2004.3	2057.2	2065.1
25°	5534.3	5297.0	4336.1	2718.1	1718.0	1614.0	1741.5	1874.8	1994.5	2059.2	2067.0
27.5°	5677.5	5324.5	4014.4	2137.6	1474.8	1559.1	1694.4	1821.9	1945.4	2016.0	2025.8
30°	5832.4	5312.7	3577.1	1647.3	1392.4	1512.0	1629.7	1745.4	1859.2	1937.6	1945.4
32.5°	6059.9	5304.9	3043.7	1337.5	1359.1	1474.8	1561.1	1657.2	1735.6	1780.7	1774.8
35°	6358.0	5295.1	2422.0	1206.1	1339.5	1445.4	1514.0	1559.1	1472.8	1445.4	1451.2
37.5°	6740.4	5318.6	1898.4	1151.2	1333.6	1437.5	1496.3	1366.9	1233.6	1182.6	1174.7
40°	7164.0	5379.4	1447.3	1129.6	1353.2	1457.1	1429.7	1215.9	1051.2	951.1	929.6
42.5°	7589.6	5446.1	1145.3	1121.8	1386.5	1512.0	1319.8	1106.1	859.0	802.1	794.3
45°	7905.3	5434.3	990.4	1108.0	1415.9	1543.4	1290.4	949.2	766.8	741.3	743.3
47.5°	8064.2	5304.9	906.0	1076.7	1427.7	1512.0	1217.9	884.5	704.0	731.5	755.0
50°	7979.8	4969.5	827.6	1015.9	1402.2	1470.8	1102.2	835.4	672.7	786.4	839.4
52.5°	7877.9	4557.7	741.3	921.7	1341.4	1414.0	1057.0	821.7	653.1	759.0	798.2
55°	8013.2	4296.8	600.1	776.6	1221.8	1280.6	1021.7	819.8	608.0	590.3	584.4
57.5°	7822.9	3777.1	429.5	558.9	937.4	1013.9	996.3	806.0	539.3	537.3	545.2
60°	6046.2	2304.3	294.2	355.0	574.6	647.2	904.1	770.7	464.8	427.5	429.5
62.5°	3435.9	980.6	202.0	219.6	294.2	349.1	690.3	700.1	429.5	407.9	429.5
65°	1196.3	351.0	156.9	147.1	162.8	186.3	396.1	541.3	390.3	353.0	356.9
67.5°	247.1	174.5	139.2	121.6	121.6	121.6	202.0	337.3	321.6	280.4	284.4
70°	156.9	149.0	121.6	103.9	100.0	92.2	115.7	186.3	221.6	204.0	205.9
72.5°	115.7	113.7	96.1	84.3	74.5	66.7	72.6	92.2	113.7	117.7	119.6
75°	70.6	72.6	62.8	53.0	47.1	41.2	43.1	43.1	43.1	39.2	43.1
77.5°	21.6	23.5	19.6	15.7	13.7	13.7	13.7	11.8	9.8	5.9	5.9
80°	5.9	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	0.0	0.0
82.5°	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0
85°	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	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)