

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: P640174

Luminaire Tested: GWS-SA5D-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

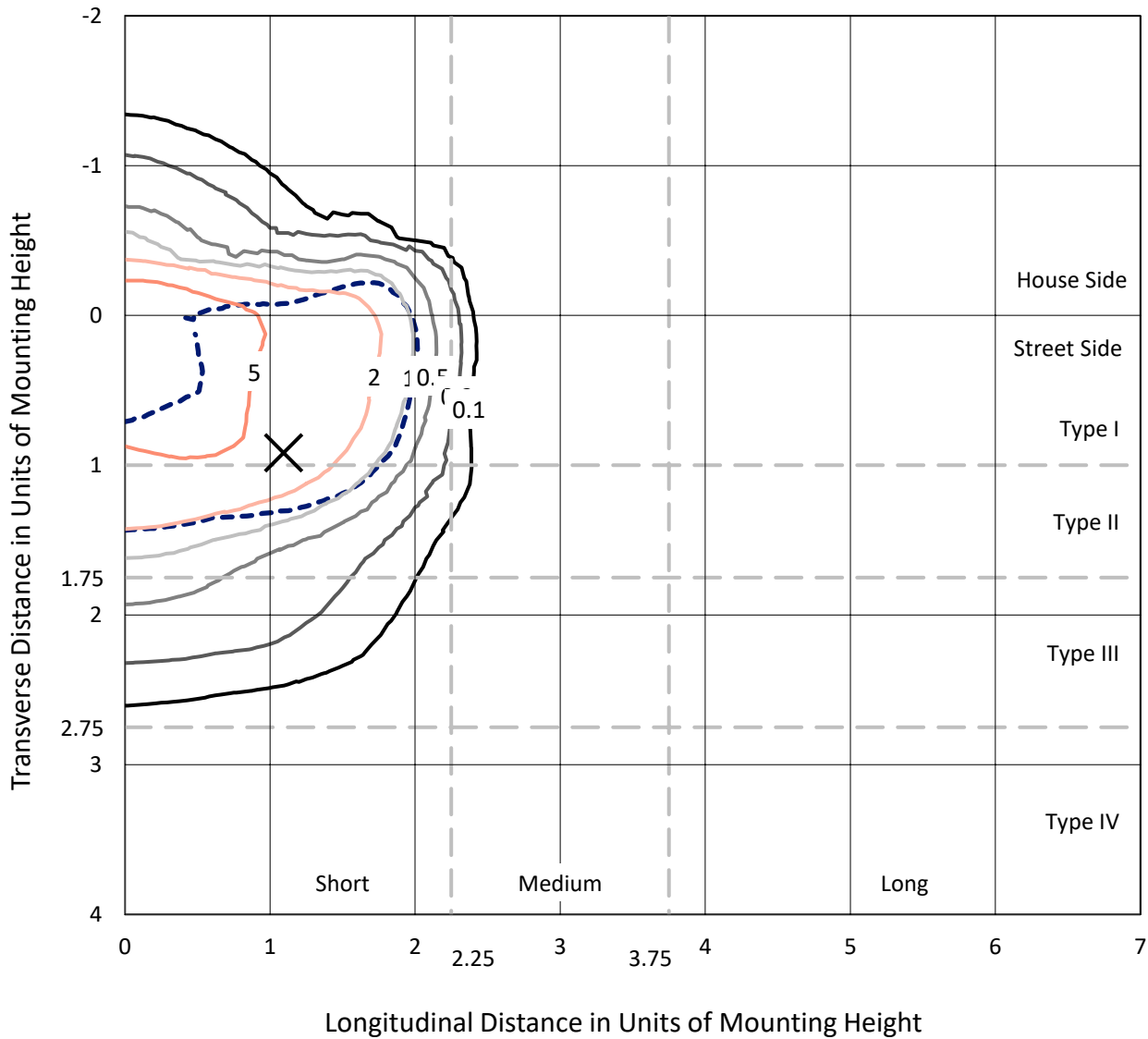
Lumens per Lamp: N/A  
Luminaire Lumens: 17398 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

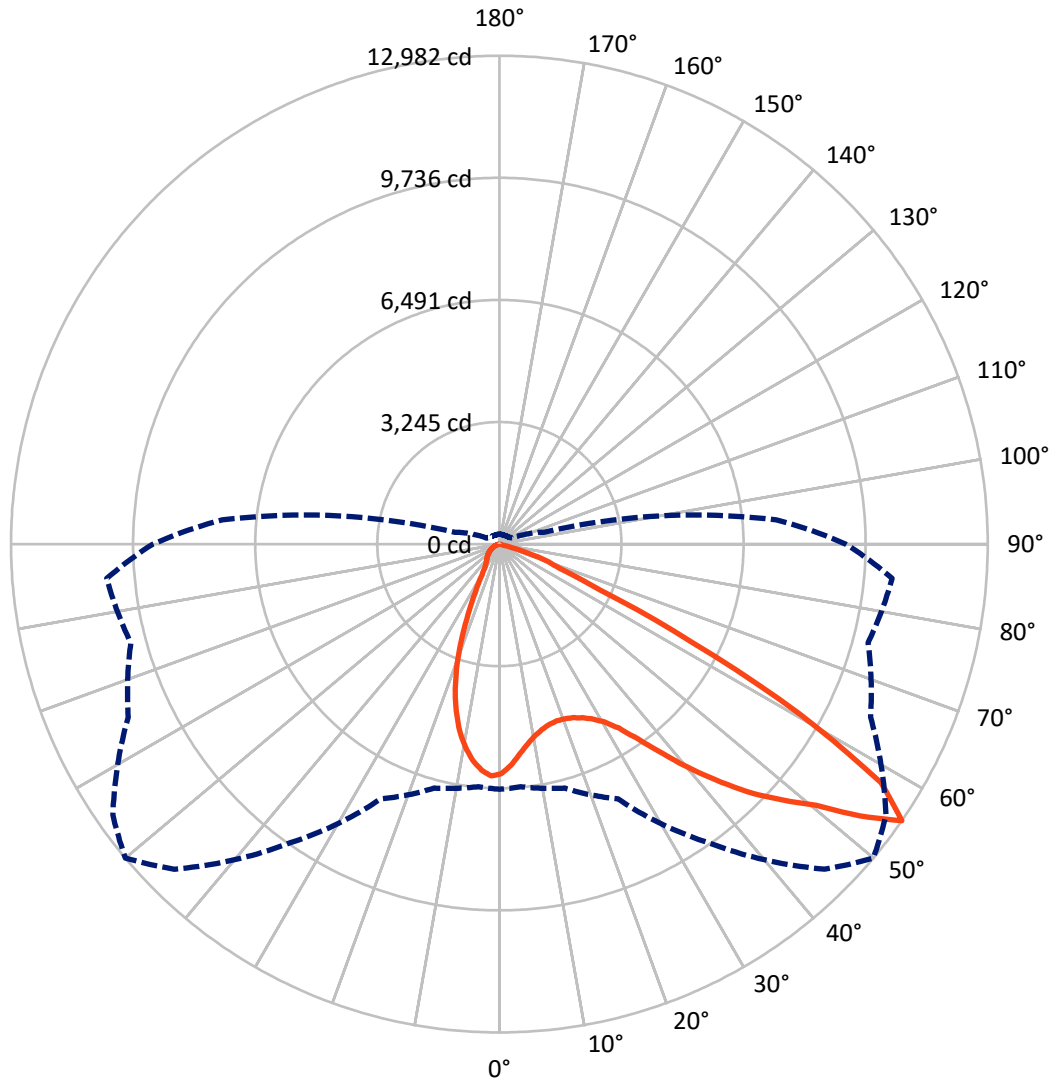
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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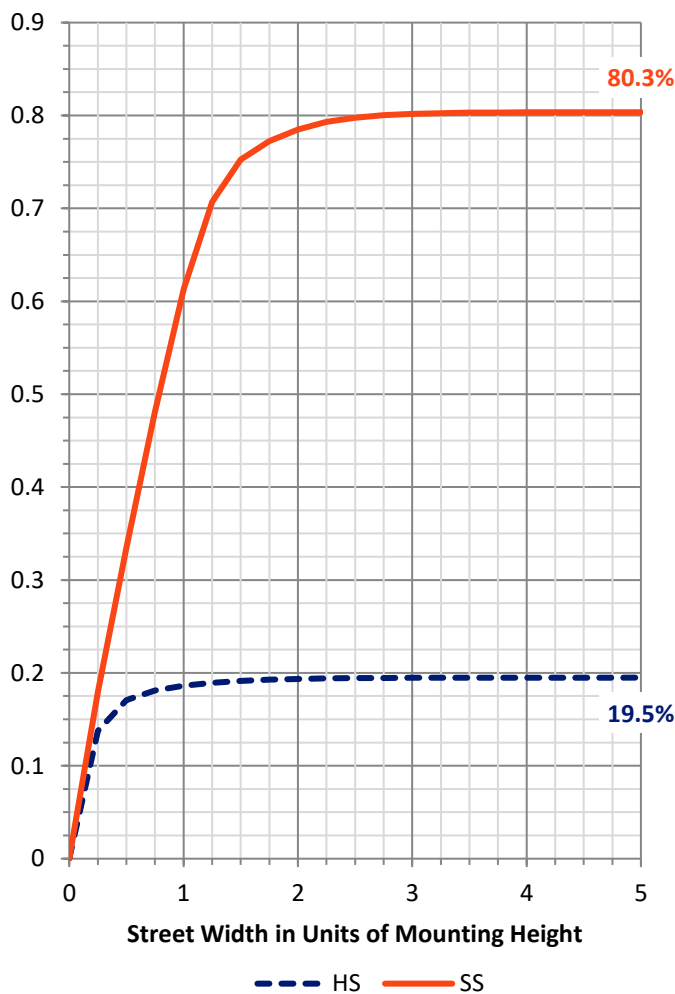
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3428.2	0.0	3428.2
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	13969.8	0.0	13969.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	17398.0	0.0	17398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.1	3.1
10°-20°	1319.2	7.6
20°-30°	1860.8	10.7
30°-40°	2753.6	15.8
40°-50°	3972.5	22.8
50°-60°	4685.9	26.9
60°-70°	2090.3	12.0
70°-80°	179.7	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°	17398.0	100.0
0°-180°	17398.0	100.0

**Coefficient of Utilization**

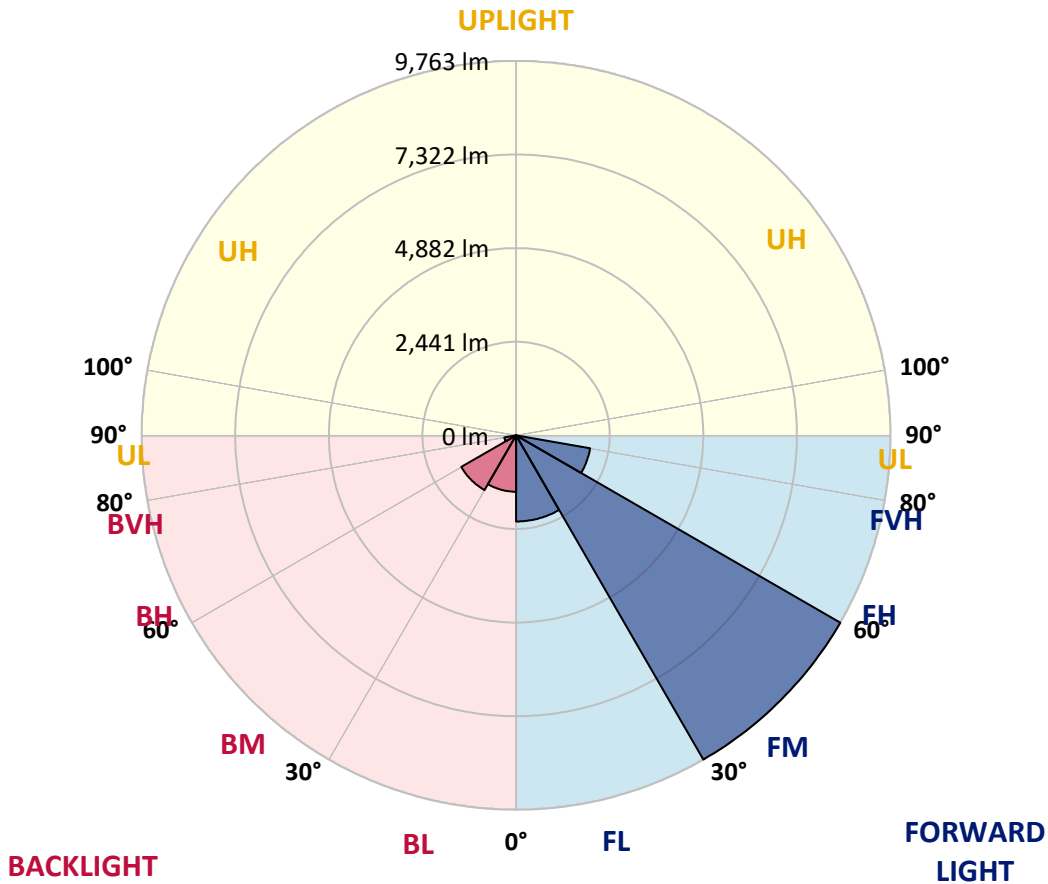


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.1	12.9			
FM (30°-60°)	9763.2	56.1			
FH (60°-80°)	1960.4	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1469.9	8.4	B3/2500		
BM (30°-60°)	1648.7	9.5	B2/2500		
BH (60°-80°)	309.5	1.8	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°	50°	55°	65°	75°	85°
0°	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2
2.5°	5670.9	5675.2	5677.3	5734.6	5755.9	5840.8	5885.4	5908.8	5970.4	6042.6	6102.1
5°	5290.7	5284.3	5295.0	5367.2	5413.9	5539.2	5607.2	5653.9	5789.8	5959.8	6102.1
7.5°	4959.4	4972.1	4984.9	5063.5	5133.5	5269.5	5367.2	5437.3	5626.3	5879.0	6119.1
10°	4725.8	4725.8	4744.9	4834.1	4916.9	5084.7	5182.4	5271.6	5496.7	5806.8	6138.2
12.5°	4553.7	4555.8	4579.2	4681.2	4776.7	4950.9	5052.8	5139.9	5388.4	5734.6	6142.4
15°	4473.0	4466.6	4485.7	4594.1	4700.3	4863.8	4970.0	5055.0	5312.0	5694.3	6163.7
17.5°	4451.8	4447.5	4462.4	4568.6	4676.9	4836.2	4940.3	5025.2	5301.3	5707.0	6227.4
20°	4513.4	4504.9	4498.5	4589.8	4691.8	4848.9	4957.3	5052.8	5352.3	5777.1	6325.1
22.5°	4659.9	4659.9	4645.0	4689.6	4757.6	4899.9	5012.5	5137.8	5486.1	5917.3	6469.5
25°	4929.7	4908.4	4880.8	4899.9	4891.4	4980.6	5114.4	5288.6	5738.9	6148.8	6645.8
27.5°	5237.6	5256.7	5210.0	5212.1	5137.8	5105.9	5261.0	5524.4	6114.8	6475.9	6907.0
30°	5656.0	5641.2	5643.3	5636.9	5464.9	5314.1	5481.9	5832.3	6588.4	6975.0	7246.9
32.5°	5983.1	6004.4	6074.5	6114.8	5889.7	5647.5	5826.0	6250.7	7127.9	7544.2	7663.2
35°	6329.3	6367.6	6509.9	6641.5	6452.5	6174.3	6365.4	6805.1	7635.5	8107.1	8141.0
37.5°	6694.6	6771.1	6941.0	7172.5	7142.8	6896.4	7070.6	7457.1	8034.8	8446.9	8536.1
40°	7113.1	7187.4	7465.6	7799.1	7869.2	7814.0	7871.3	8096.4	8298.2	8461.8	8706.0
42.5°	7571.8	7673.8	8026.3	8472.4	8735.7	8784.6	8650.8	8627.4	8412.9	8291.8	8669.9
45°	8113.4	8232.4	8631.7	9209.4	9627.8	9693.6	9462.1	9162.7	8485.1	8166.5	8561.6
47.5°	8720.9	8833.4	9230.6	9925.1	10547.5	10572.9	10169.4	9687.3	8699.6	8311.0	8644.4
50°	8924.8	8994.9	9338.9	10154.5	11301.5	11496.9	10912.8	10277.7	9130.8	8735.7	9048.0
52.5°	8223.9	8251.5	8551.0	9375.0	11148.5	12403.8	11998.1	11159.1	9897.5	9383.5	9670.3
55°	6516.2	6471.6	6713.8	7469.9	9689.4	12219.0	12981.5	12544.0	10885.2	10143.9	10479.5
57.5°	4558.0	4504.9	4449.6	4961.5	7229.9	10358.4	11962.0	12737.2	11826.1	10897.9	11352.4
60°	3746.6	3695.6	3428.0	3192.3	4371.1	7438.0	9188.1	10647.3	11749.6	10859.7	11324.8
62.5°	3236.9	3207.1	3098.8	2778.1	2572.1	4245.7	5753.7	7151.3	9016.1	8527.6	8553.1
65°	2542.3	2533.9	2608.2	2642.2	2274.7	2349.1	2935.3	3716.9	4874.4	4596.2	4358.3
67.5°	1737.4	1718.3	1858.4	2285.4	2187.7	1854.2	1718.3	1733.1	2109.1	1289.2	1023.7
70°	1104.4	1059.8	1062.0	1416.7	1779.9	1463.4	1325.3	1166.0	1049.2	191.2	216.6
72.5°	707.3	679.7	584.1	639.3	824.1	713.6	720.0	620.2	414.2	101.9	118.9
75°	297.4	274.0	210.3	167.8	165.7	104.1	91.3	85.0	57.3	57.3	61.6
77.5°	2.1	0.0	0.0	2.1	4.2	2.1	2.1	4.2	8.5	12.7	14.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2
2.5°	6138.2	6087.2	6144.5	6165.8	6163.7	6165.8	6104.2	6061.7	6059.6	6006.5	5981.0
5°	6161.5	6121.2	6163.7	6136.0	6070.2	5987.4	5876.9	5781.3	5738.9	5677.3	5647.5
7.5°	6206.1	6163.7	6157.3	6046.8	5883.3	5709.1	5513.7	5339.6	5246.1	5133.5	5139.9
10°	6238.0	6189.1	6106.3	5881.2	5609.3	5331.1	5040.1	4781.0	4617.4	4466.6	4441.1
12.5°	6250.7	6178.5	5985.2	5645.4	5263.1	4899.9	4473.0	4103.4	3848.6	3651.0	3623.4
15°	6274.1	6157.3	5830.2	5360.8	4836.2	4322.2	3778.5	3273.0	2935.3	2708.0	2727.1
17.5°	6310.2	6133.9	5656.0	5042.2	4377.4	3651.0	2916.2	2336.3	2026.2	1894.5	1896.7
20°	6361.2	6106.3	5464.9	4691.8	3827.3	2892.8	2039.0	1601.4	1514.4	1510.1	1503.7
22.5°	6429.1	6078.7	5261.0	4307.3	3175.3	2026.2	1357.2	1221.3	1257.4	1327.5	1340.2
25°	6509.9	6044.7	5033.7	3874.1	2463.8	1329.6	1017.4	996.1	1083.2	1176.7	1197.9
27.5°	6635.2	6027.7	4774.6	3381.3	1728.9	953.6	832.6	845.3	923.9	1002.5	1021.6
30°	6847.6	6059.6	4492.1	2829.1	1110.8	760.4	722.1	741.3	783.7	824.1	841.1
32.5°	7136.4	6153.0	4218.1	2225.9	792.2	660.5	652.0	662.7	679.7	703.0	709.4
35°	7474.1	6314.5	3935.6	1593.0	654.2	603.2	594.7	594.7	603.2	607.4	609.6
37.5°	7752.4	6484.4	3670.2	1059.8	586.2	558.6	545.9	539.5	537.4	541.6	543.7
40°	7873.4	6554.5	3381.3	771.0	537.4	518.2	499.1	480.0	480.0	494.9	497.0
42.5°	7788.5	6475.9	3047.8	637.2	503.4	475.8	446.0	429.0	437.5	452.4	456.6
45°	7607.9	6282.6	2680.4	562.8	469.4	433.3	399.3	388.7	397.2	416.3	420.5
47.5°	7578.2	6155.2	2240.8	514.0	433.3	397.2	361.1	350.4	361.1	375.9	380.2
50°	7873.4	6265.6	1752.2	471.5	399.3	358.9	329.2	318.6	325.0	333.5	337.7
52.5°	8412.9	6675.5	1414.5	431.2	358.9	320.7	301.6	288.9	288.9	297.4	299.5
55°	9209.4	7391.3	1221.3	384.4	312.2	291.0	274.0	261.2	261.2	265.5	267.6
57.5°	10126.9	8257.9	1265.9	322.8	274.0	263.4	248.5	237.9	242.1	242.1	242.1
60°	9999.5	8194.1	1355.1	271.9	242.1	237.9	225.1	220.9	231.5	223.0	218.8
62.5°	7365.8	5660.3	709.4	223.0	208.1	203.9	195.4	203.9	218.8	195.4	186.9
65°	3576.7	2739.9	284.6	182.7	176.3	172.0	167.8	180.5	189.0	152.9	144.4
67.5°	841.1	683.9	184.8	155.0	146.6	138.1	142.3	144.4	138.1	104.1	99.8
70°	218.8	214.5	144.4	129.6	116.8	108.3	108.3	106.2	91.3	65.8	61.6
72.5°	118.9	116.8	104.1	97.7	80.7	72.2	74.3	65.8	51.0	38.2	36.1
75°	59.5	63.7	59.5	55.2	44.6	40.4	40.4	36.1	25.5	14.9	14.9
77.5°	12.7	14.9	14.9	12.7	10.6	8.5	8.5	10.6	4.2	0.0	0.0
80°	2.1	2.1	2.1	2.1	2.1	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)