

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: P637648

Luminaire Tested: GWS-SA4D-730-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

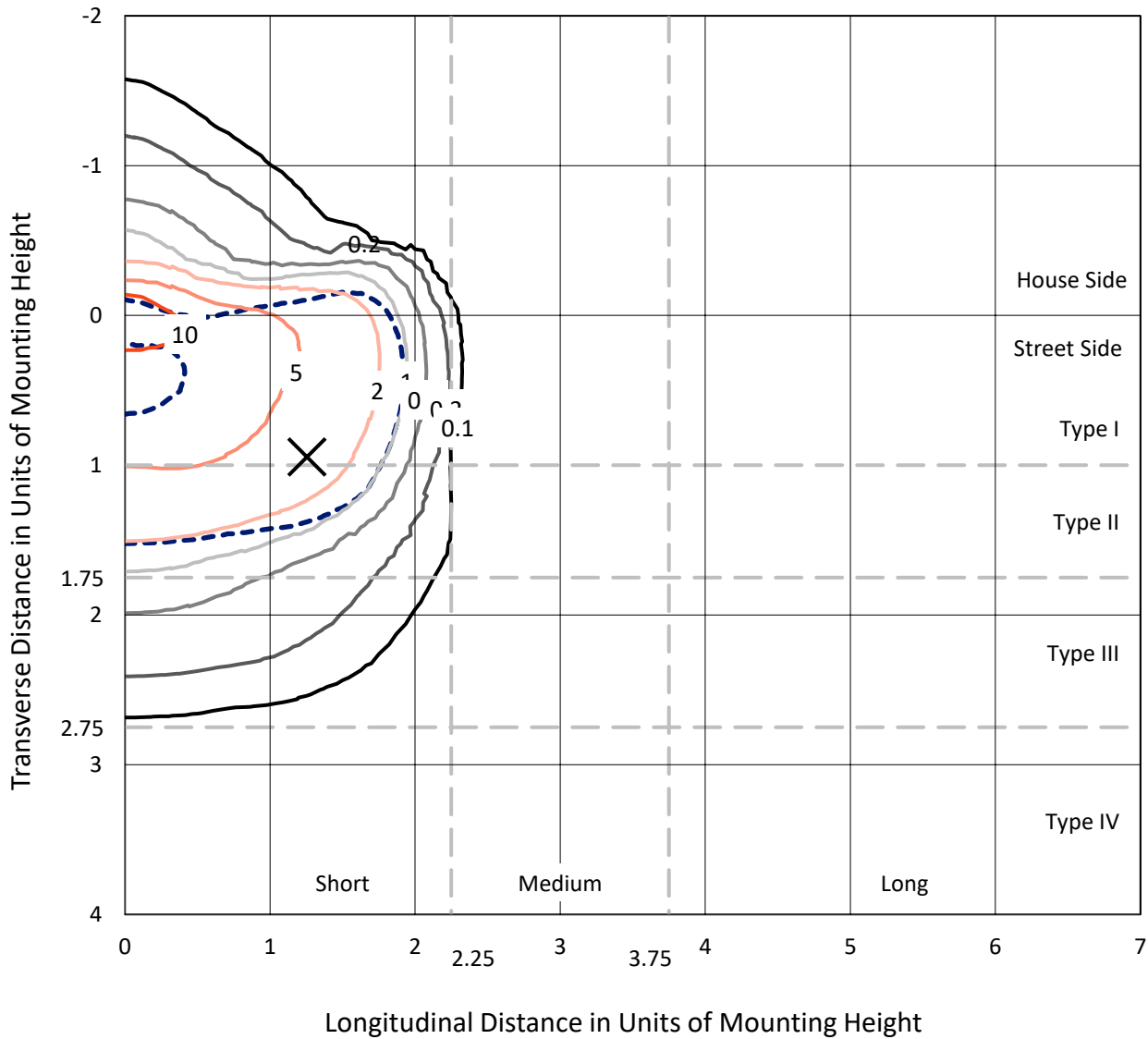
Lumens per Lamp: N/A  
Luminaire Lumens: 13043.2 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

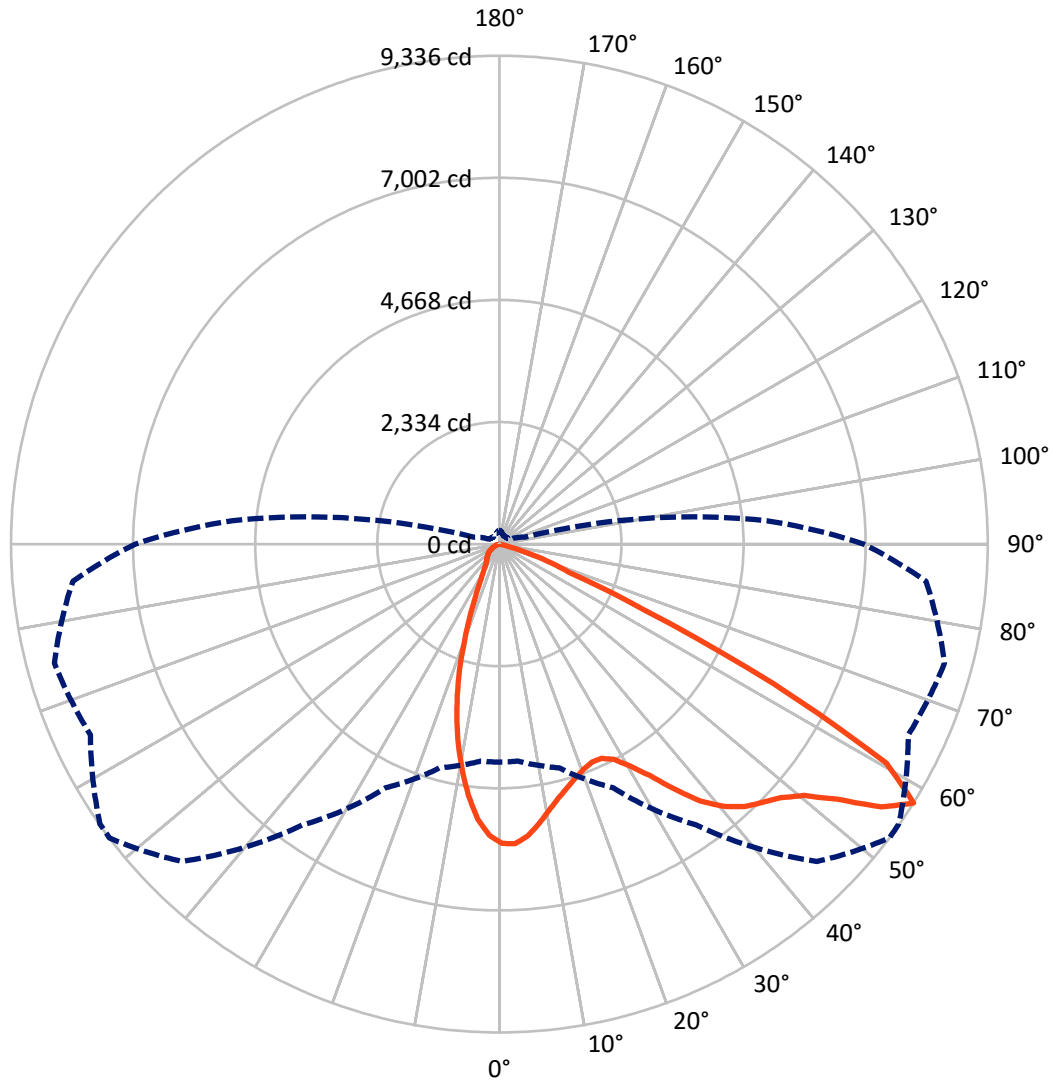
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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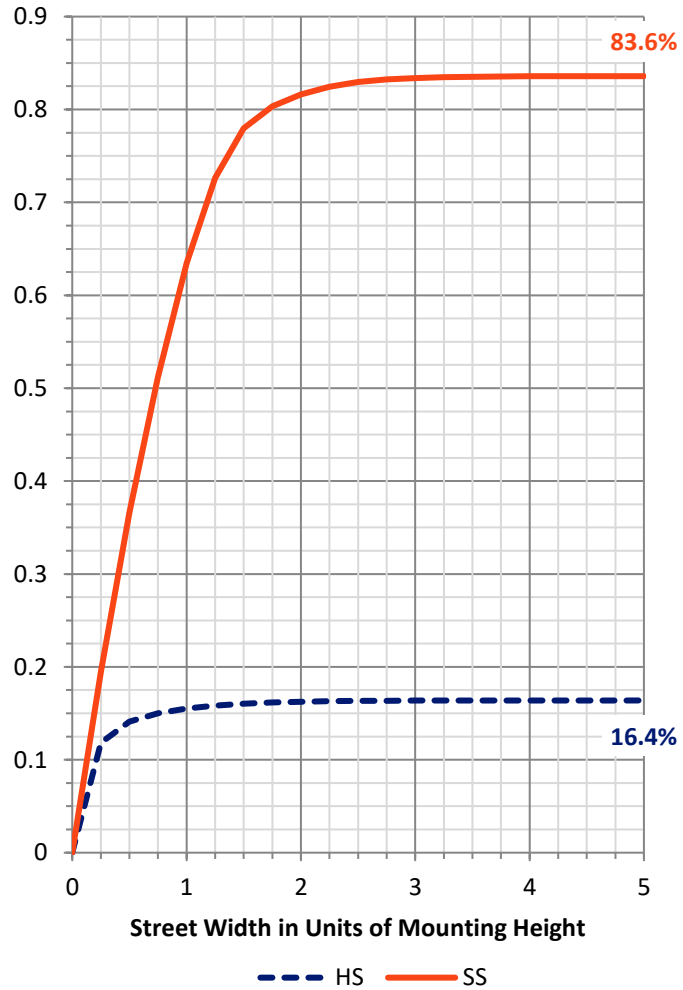
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2154.6	0.0	2154.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10888.6	0.0	10888.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13043.2	0.0	13043.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.5	3.8
10°-20°	1074.7	8.2
20°-30°	1400.0	10.7
30°-40°	2030.8	15.6
40°-50°	2930.2	22.5
50°-60°	3543.9	27.2
60°-70°	1444.3	11.1
70°-80°	129.8	1.0
80°-90°	0.0	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°	13043.2	100.0
0°-180°	13043.2	100.0

**Coefficient of Utilization**



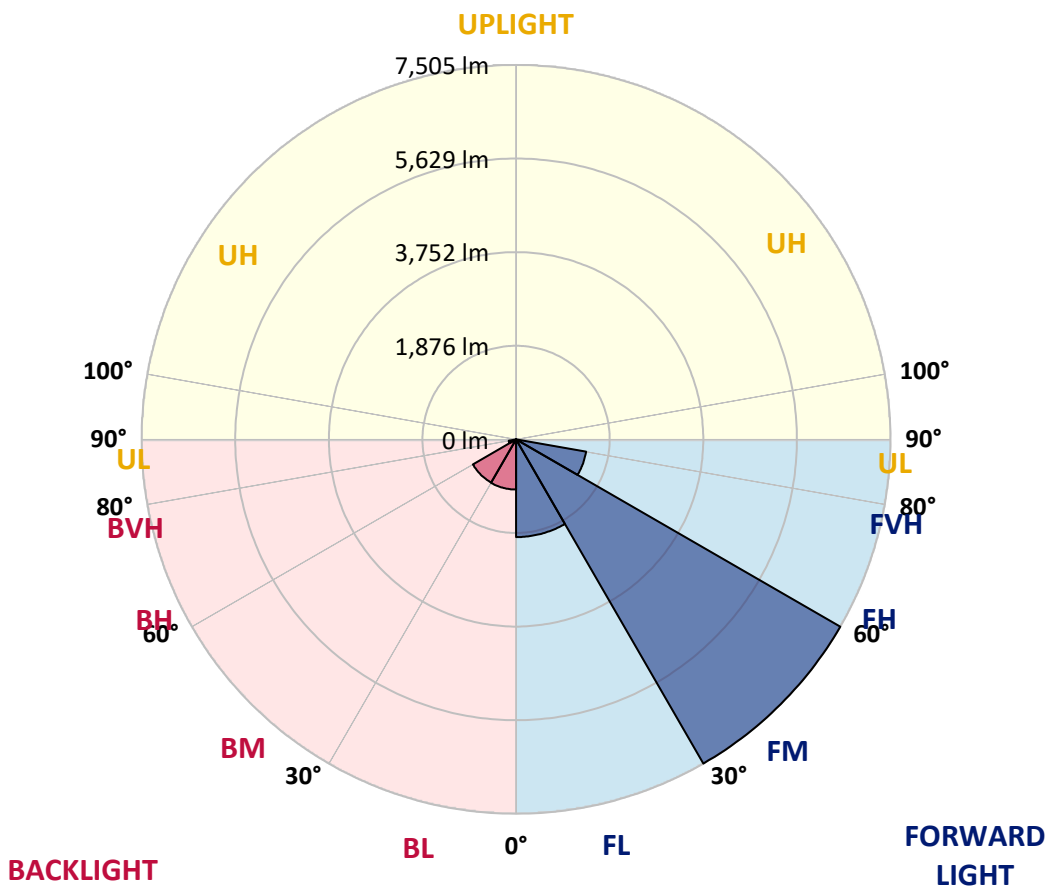
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.7	15.0			
FM (30°-60°)	7504.8	57.5			
FH (60°-80°)	1425.2	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1005.6	7.7	B3/2500		
BM (30°-60°)	1000.0	7.7	B2/2500		
BH (60°-80°)	148.9	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	53°	55°	65°	75°	85°
0°	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5
2.5°	5641.6	5654.3	5676.7	5705.5	5724.7	5734.3	5734.3	5761.5	5743.9	5729.5	5713.5
5°	5400.2	5413.0	5443.3	5489.7	5536.1	5569.6	5608.0	5636.8	5648.0	5648.0	5620.8
7.5°	5059.7	5077.2	5096.4	5160.4	5261.1	5336.2	5401.8	5443.3	5504.1	5523.3	5484.9
10°	4693.6	4711.2	4754.3	4842.2	4957.3	5069.3	5181.2	5233.9	5337.8	5392.2	5349.0
12.5°	4383.4	4391.4	4449.0	4554.5	4701.6	4855.0	4990.9	5045.3	5192.3	5273.9	5222.7
15°	4127.7	4132.5	4190.0	4306.7	4476.2	4664.8	4835.9	4891.8	5072.4	5195.5	5118.8
17.5°	3934.2	3935.8	3985.4	4111.7	4289.1	4498.5	4701.6	4770.3	5003.7	5152.4	5037.3
20°	3836.7	3831.9	3867.1	3977.4	4145.2	4354.7	4594.5	4679.2	4965.3	5146.0	4974.9
22.5°	3838.3	3827.1	3841.5	3919.8	4062.1	4258.7	4527.3	4623.2	4968.5	5173.2	4922.2
25°	3929.4	3913.4	3916.6	3958.2	4058.9	4238.0	4536.9	4639.2	5032.5	5264.3	4903.0
27.5°	4082.9	4065.3	4065.3	4086.1	4140.4	4303.5	4656.8	4773.5	5203.5	5441.7	4943.0
30°	4281.1	4263.5	4257.1	4277.9	4322.7	4473.0	4923.8	5045.3	5496.1	5732.7	5070.8
32.5°	4508.1	4487.3	4498.5	4527.3	4570.5	4778.3	5267.5	5428.9	5862.2	6124.3	5301.1
35°	4747.9	4730.3	4781.5	4843.8	4911.0	5201.9	5742.3	5883.0	6311.4	6611.9	5652.8
37.5°	4976.5	4968.5	5075.6	5206.7	5345.8	5710.3	6225.1	6333.8	6696.7	7142.7	6082.8
40°	5205.1	5203.5	5387.4	5617.6	5839.8	6217.1	6591.1	6680.7	6931.7	7555.1	6495.2
42.5°	5460.9	5460.9	5715.1	6022.0	6317.8	6645.5	6859.7	6899.7	7037.2	7793.3	6805.4
45°	5705.5	5719.9	6014.0	6370.5	6720.6	6979.6	7045.2	7048.4	7080.3	7934.0	7062.7
47.5°	5898.9	5911.7	6263.4	6674.3	7051.5	7233.8	7243.4	7229.0	7193.8	8068.3	7261.0
50°	6055.6	6074.8	6442.5	6877.3	7278.6	7478.4	7551.9	7537.5	7448.0	8212.2	7400.1
52.5°	6132.3	6159.5	6504.8	6978.0	7531.1	7897.2	8101.8	8135.4	7828.5	8292.1	7532.7
55°	5518.5	5558.4	5876.6	6524.0	7671.8	8544.7	8866.0	8859.6	8240.9	8530.3	7855.7
57.5°	4167.6	4164.4	4428.2	5136.4	6552.8	8581.4	9336.0	9323.2	8626.2	8806.8	8186.6
60°	2837.6	2818.4	2888.7	3230.8	4581.7	6990.8	8496.7	8669.4	8352.8	8135.4	6950.8
62.5°	2335.6	2318.0	2295.6	2201.3	2631.3	4354.7	5870.2	6132.3	6090.8	5654.3	4359.5
65°	1912.0	1926.3	1988.7	1948.7	1830.4	2233.3	3047.0	3202.1	2927.1	2463.5	1523.5
67.5°	1410.0	1416.4	1497.9	1708.9	1645.0	1486.7	1434.0	1459.5	855.3	393.3	254.2
70°	832.9	837.7	912.8	1195.8	1334.9	1141.4	968.8	954.4	338.9	105.5	115.1
72.5°	471.6	462.0	476.4	569.1	727.4	605.9	498.8	454.0	102.3	59.1	59.1
75°	223.8	217.4	187.0	175.8	159.9	102.3	63.9	54.4	25.6	24.0	24.0
77.5°	1.6	4.8	3.2	4.8	4.8	3.2	1.6	1.6	4.8	4.8	6.4
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5	5721.5
2.5°	5684.7	5636.8	5625.6	5622.4	5577.6	5529.7	5480.1	5460.9	5432.1	5414.6	5428.9
5°	5577.6	5508.9	5448.1	5392.2	5293.1	5184.4	5090.0	5029.3	4971.7	4933.4	4943.0
7.5°	5425.7	5336.2	5197.1	5054.9	4872.6	4709.6	4527.3	4415.4	4311.5	4254.0	4281.1
10°	5264.3	5146.0	4923.8	4682.4	4396.2	4140.4	3879.9	3667.3	3544.2	3427.5	3440.2
12.5°	5106.0	4949.4	4616.8	4250.8	3889.5	3512.2	3118.9	2824.8	2623.3	2477.9	2455.5
15°	4958.9	4757.5	4317.9	3835.1	3342.7	2840.8	2338.8	1918.4	1685.0	1541.1	1531.5
17.5°	4827.9	4578.5	4007.8	3400.3	2783.2	2140.6	1563.5	1248.5	1114.2	1051.9	1045.5
20°	4701.6	4397.8	3691.2	2959.1	2172.5	1502.7	1079.1	933.6	890.4	864.9	868.1
22.5°	4580.1	4201.2	3358.7	2469.9	1629.0	1055.1	836.1	780.1	775.3	778.5	780.1
25°	4477.8	4020.6	3016.6	1998.3	1162.2	804.1	698.6	682.6	697.0	717.8	721.0
27.5°	4425.0	3873.5	2682.5	1523.5	840.9	653.8	605.9	612.3	637.9	660.2	663.4
30°	4439.4	3763.2	2337.2	1104.7	647.4	551.5	535.5	548.3	573.9	594.7	597.9
32.5°	4541.7	3707.2	1983.9	804.1	532.3	481.2	474.8	484.4	506.8	522.8	524.4
35°	4744.7	3720.0	1648.2	615.5	457.2	428.4	426.8	433.2	444.4	455.6	457.2
37.5°	5043.7	3823.9	1317.3	511.6	414.0	393.3	386.9	386.9	394.9	399.7	402.9
40°	5365.0	3980.6	1055.1	452.4	383.7	361.3	348.5	343.7	350.1	356.5	358.1
42.5°	5630.4	4137.3	856.9	410.8	359.7	329.3	313.3	310.1	318.1	329.3	332.5
45°	5833.4	4258.7	714.6	377.3	332.5	298.9	281.4	281.4	295.7	314.9	318.1
47.5°	6018.8	4356.3	609.1	346.9	306.9	271.8	254.2	257.4	281.4	306.9	311.7
50°	6145.1	4434.6	530.7	319.7	286.2	249.4	233.4	239.8	268.6	298.9	303.7
52.5°	6281.0	4530.5	479.6	295.7	267.0	231.8	217.4	222.2	254.2	287.8	294.1
55°	6656.7	4851.8	478.0	263.8	233.4	207.8	201.4	203.0	235.0	273.4	281.4
57.5°	6963.6	5134.8	510.0	222.2	195.0	182.2	179.0	180.6	209.4	252.6	262.2
60°	5761.5	3990.2	422.0	183.8	163.1	159.9	155.1	158.3	185.4	223.8	231.8
62.5°	3409.9	2281.2	201.4	140.7	139.1	135.9	131.1	137.5	163.1	196.6	201.4
65°	1165.4	676.2	127.9	115.1	118.3	113.5	108.7	115.1	137.5	156.7	158.3
67.5°	223.8	179.0	102.3	95.9	97.5	87.9	86.3	92.7	105.5	108.7	107.1
70°	116.7	103.9	78.3	78.3	75.1	62.3	62.3	68.7	68.7	63.9	62.3
72.5°	60.7	57.6	51.2	57.6	48.0	38.4	38.4	41.6	38.4	32.0	32.0
75°	24.0	24.0	22.4	28.8	20.8	17.6	16.0	19.2	14.4	11.2	11.2
77.5°	6.4	6.4	6.4	8.0	4.8	4.8	3.2	3.2	1.6	0.0	0.0
80°	0.0	1.6	0.0	1.6	0.0	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)