

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: P640757

Luminaire Tested: GWS-SA5E-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

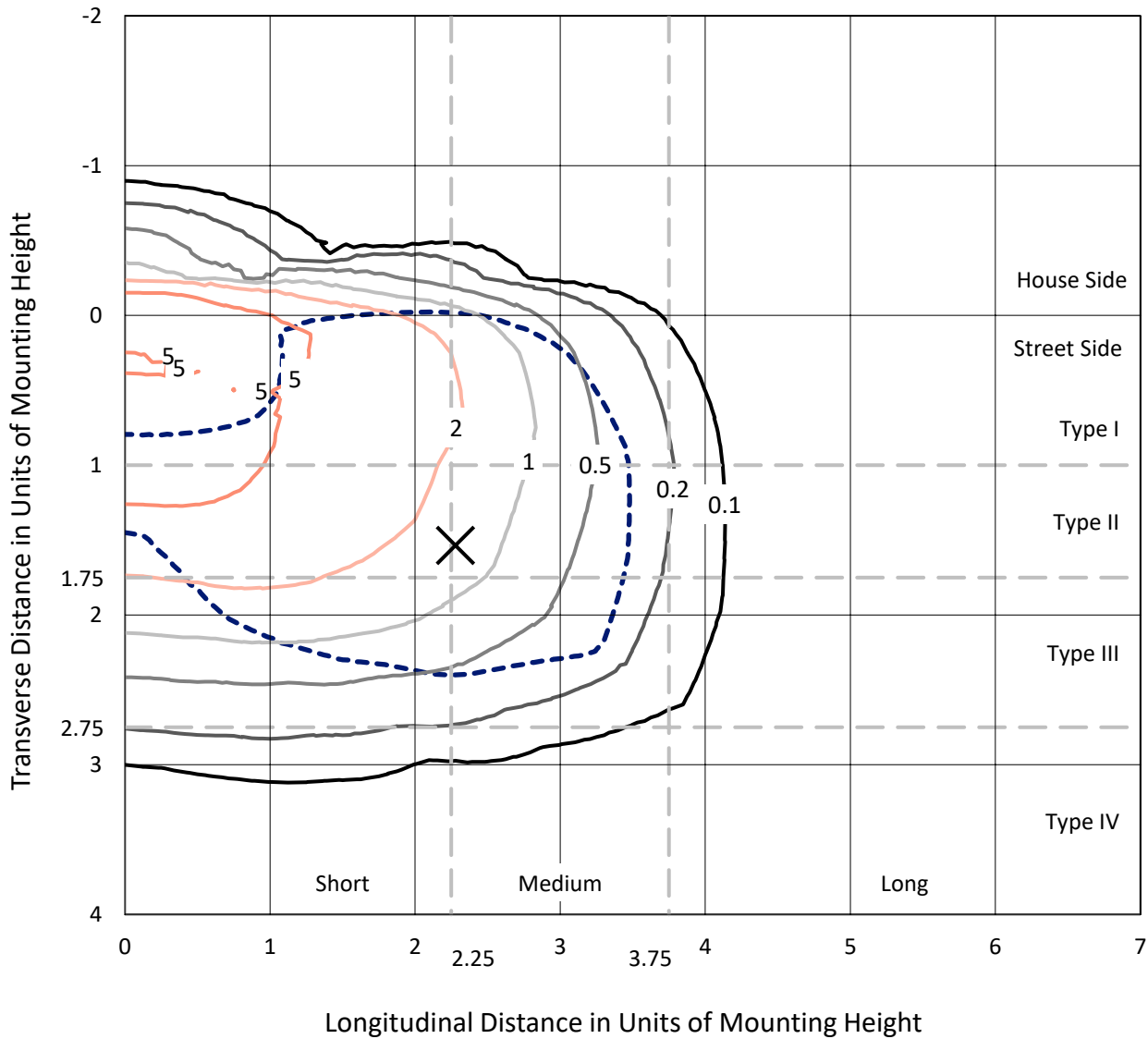
Lumens per Lamp: N/A  
Luminaire Lumens: 29387.7 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

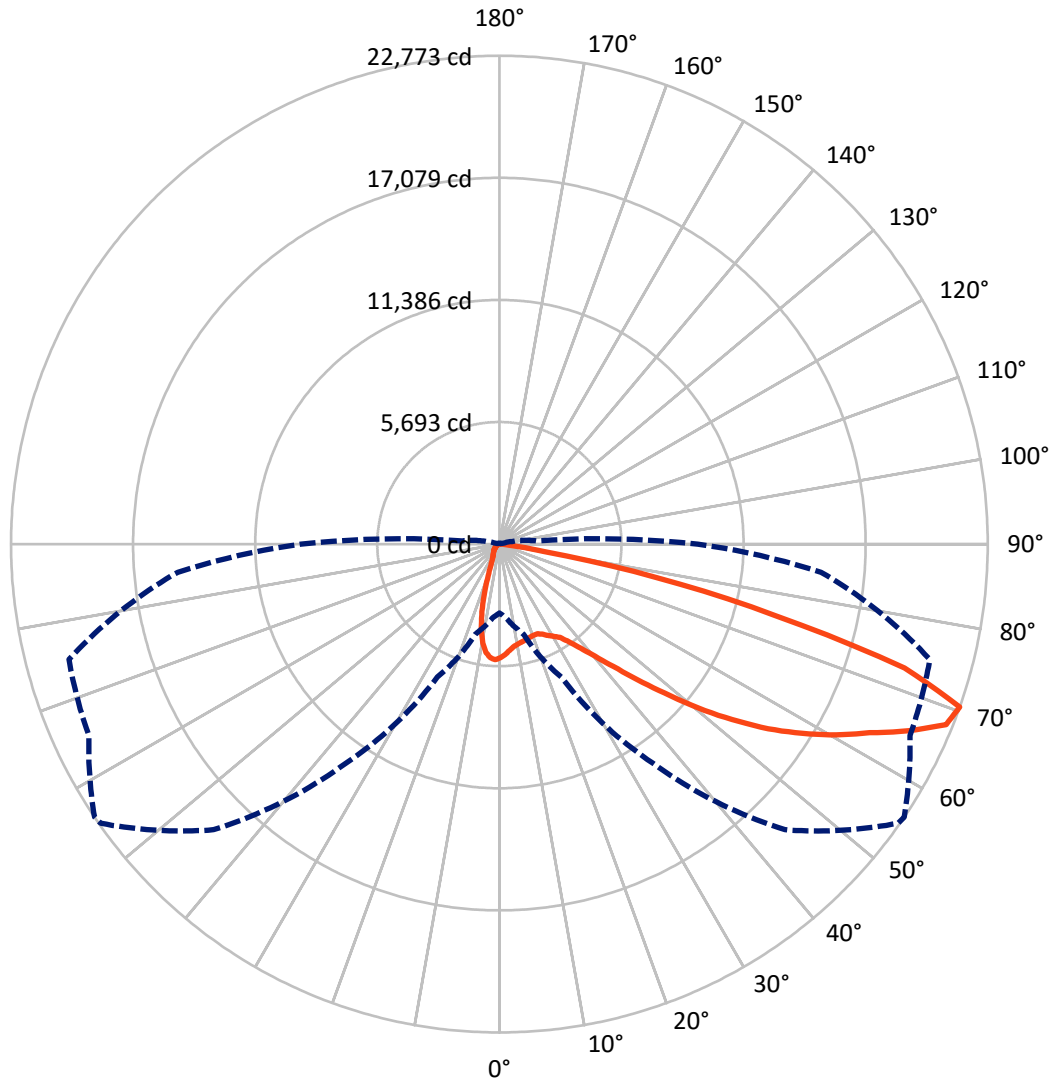
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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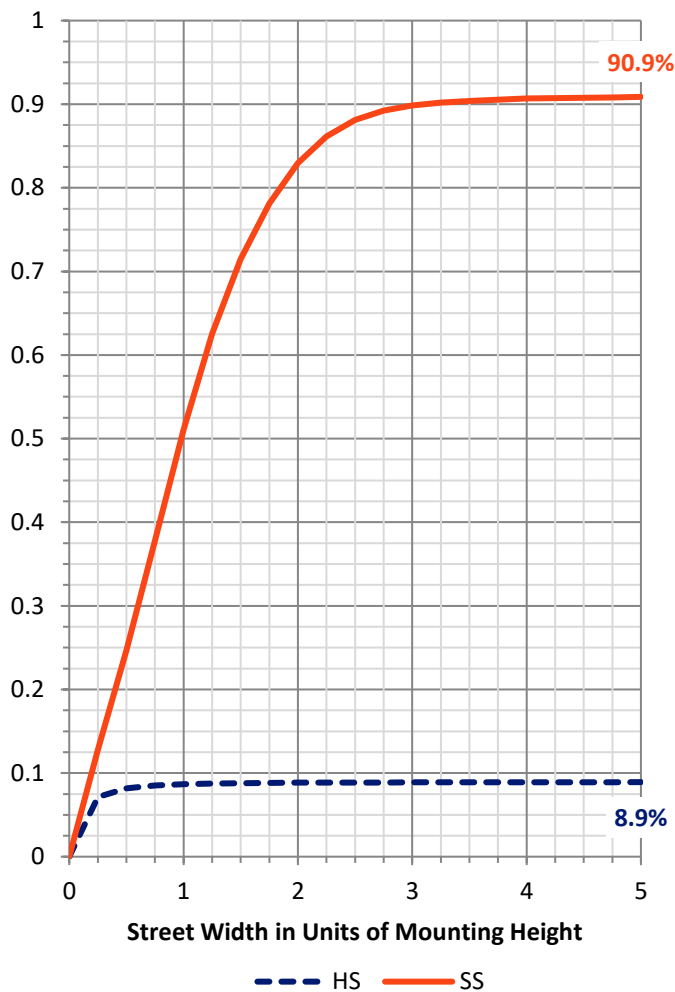
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.6	0.0	2639.6
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	26748.1	0.0	26748.1
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	29387.7	0.0	29387.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.9	1.5
10°-20°	1023.2	3.5
20°-30°	1620.8	5.5
30°-40°	2795.1	9.5
40°-50°	4720.0	16.1
50°-60°	6935.2	23.6
60°-70°	8222.1	28.0
70°-80°	3506.2	11.9
80°-90°	110.1	0.4
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°	29387.7	100.0
0°-180°	29387.7	100.0

**Coefficient of Utilization**



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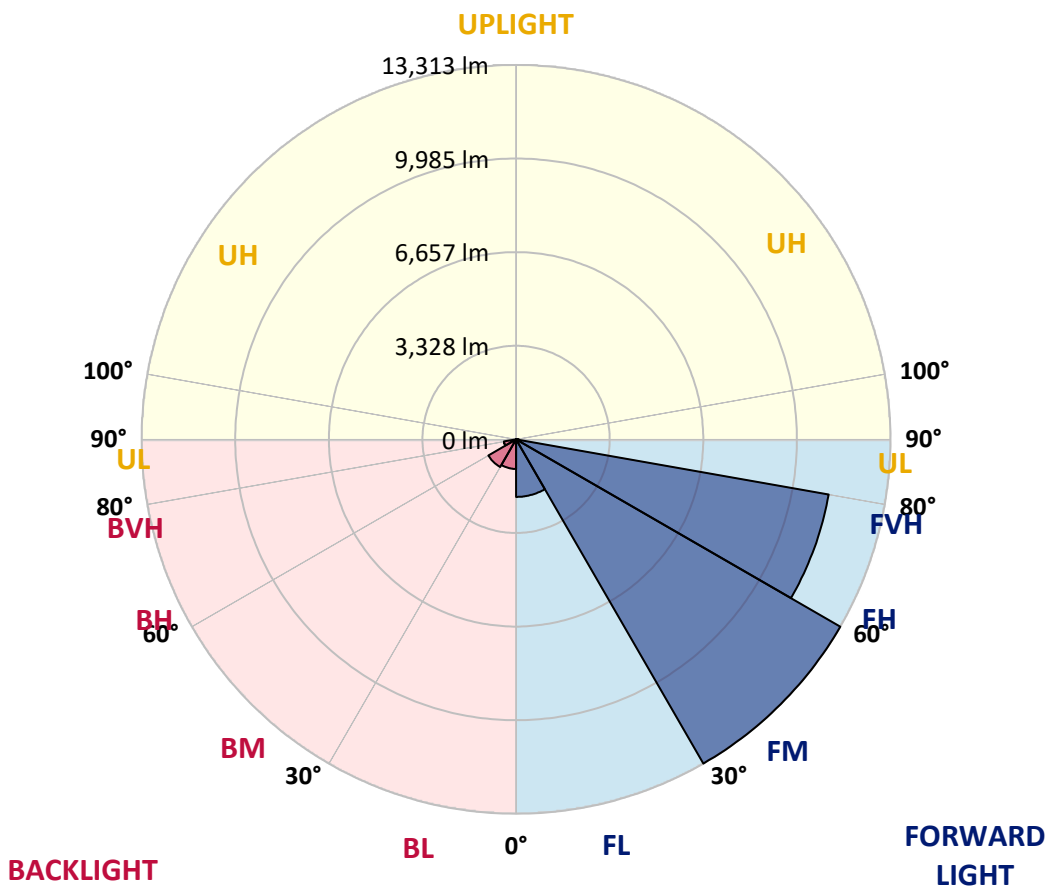
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.8	7.0			
FM (30°-60°)	13313.4	45.3			
FH (60°-80°)	11288.0	38.4			G4/12000
FVH (80°-90°)	98.9	0.3			G1/100
BL (0°-30°)	1051.2	3.6	B3/2500		
BM (30°-60°)	1136.9	3.9	B2/2500		
BH (60°-80°)	440.3	1.5	B1/500		G1/500
BVH (80°-90°)	11.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9
2.5°	4932.9	4924.8	4930.2	4970.6	5045.9	5080.9	5140.1	5150.9	5199.3	5261.2	5285.4
5°	4612.7	4585.7	4599.2	4655.7	4741.8	4838.7	4949.0	4978.6	5099.8	5237.0	5339.3
7.5°	4319.3	4289.7	4322.0	4410.8	4531.9	4636.9	4801.0	4819.9	5013.6	5255.8	5441.5
10°	3859.1	3867.2	3931.8	4087.9	4273.6	4491.5	4712.2	4739.1	4978.6	5317.7	5605.7
12.5°	3506.6	3487.7	3557.7	3735.3	3996.4	4313.9	4644.9	4679.9	4981.3	5411.9	5815.6
15°	3342.4	3337.0	3366.6	3495.8	3748.8	4122.9	4583.0	4628.8	5016.3	5498.0	6014.7
17.5°	3347.8	3339.7	3337.0	3412.4	3600.8	3980.2	4515.8	4575.0	5045.9	5592.2	6224.7
20°	3581.9	3544.3	3477.0	3442.0	3555.0	3888.7	4470.0	4537.3	5089.0	5691.8	6448.0
22.5°	4071.7	4085.2	3904.9	3716.5	3662.7	3899.5	4464.6	4542.7	5183.2	5847.9	6722.5
25°	5051.3	5029.8	4696.1	4273.6	3980.2	4023.3	4558.8	4653.0	5368.9	6071.3	6980.9
27.5°	6278.5	6297.3	5839.8	5167.0	4553.4	4278.9	4731.1	4825.3	5584.2	6211.2	7153.1
30°	7616.0	7597.2	7107.4	6361.9	5366.2	4704.2	4903.3	4986.7	5691.8	6286.6	7330.7
32.5°	8880.8	8837.8	8353.4	7572.9	6402.3	5374.3	5140.1	5188.6	5834.4	6450.7	7570.2
35°	9960.0	9957.3	9534.8	8703.2	7468.0	6213.9	5546.5	5586.9	6100.9	6711.8	7922.8
37.5°	11074.1	11036.5	10562.8	9803.9	8563.3	7134.3	6168.1	6152.0	6520.7	7096.6	8356.1
40°	11989.1	11964.9	11601.6	10872.3	9701.6	8151.5	6921.7	6873.2	7018.6	7629.4	8958.9
42.5°	12667.3	12670.0	12557.0	12112.9	10907.3	9327.6	7869.0	7793.6	7790.9	8434.1	9755.5
45°	13181.3	13216.3	13385.8	13318.6	12330.9	10697.4	9082.7	9004.6	8872.8	9478.3	10667.8
47.5°	13420.8	13466.6	13977.9	14247.0	13576.9	12056.4	10527.8	10363.7	10105.3	10866.9	11687.7
50°	13396.6	13477.3	14190.5	15008.6	14707.2	13434.3	12102.2	12024.1	11601.6	12336.3	12696.9
52.5°	12847.6	13019.8	14204.0	15471.5	15576.4	14704.5	13730.3	13585.0	13380.5	13870.2	13644.2
55°	11356.7	11566.6	13636.1	15619.5	16254.6	15813.3	15323.5	15205.1	14866.0	15318.1	14470.4
57.5°	10546.7	10727.0	12441.2	15546.8	16830.5	16838.6	16741.7	16644.8	16365.0	16749.8	15439.2
60°	10059.6	10239.9	11803.4	15280.4	17352.6	17920.4	18073.8	18063.1	17659.4	18377.9	16574.9
62.5°	9346.4	9594.0	11138.7	14588.8	17724.0	18986.1	19449.0	19376.4	18926.9	20073.4	17699.8
65°	7906.6	8121.9	9777.0	13447.7	17506.0	19868.8	20939.9	20977.6	20458.2	21669.2	18587.9
67.5°	5543.8	5702.6	7346.9	11052.6	16025.9	20159.5	22465.8	22463.1	21577.7	22487.3	18194.9
70°	3213.2	3431.2	4340.8	6832.9	12468.2	18838.1	22694.6	22772.6	21122.9	20778.5	15057.1
72.5°	1243.3	1423.6	2459.7	3630.4	6501.8	14430.0	19521.7	19750.4	17678.2	16028.6	10479.4
75°	371.4	414.4	1157.2	1932.3	2610.4	6970.1	13216.3	13280.9	12126.4	9997.7	5371.6
77.5°	277.2	306.8	505.9	976.9	915.0	2112.6	6838.2	7468.0	6437.3	3571.2	1480.1
80°	188.4	223.4	360.6	476.3	339.1	562.5	1921.5	2109.9	1964.5	802.0	371.4
82.5°	83.4	107.6	255.7	239.5	123.8	161.5	592.1	629.7	406.4	242.2	129.2
85°	8.1	10.8	96.9	105.0	45.7	37.7	123.8	123.8	88.8	83.4	53.8
87.5°	0.0	0.0	2.7	5.4	5.4	8.1	10.8	13.5	16.1	21.5	26.9
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°	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9	5298.9
2.5°	5347.3	5315.0	5355.4	5387.7	5395.8	5336.6	5301.6	5250.5	5239.7	5242.4	5228.9
5°	5420.0	5403.9	5433.5	5398.5	5307.0	5134.7	4986.7	4822.6	4733.8	4682.6	4677.2
7.5°	5554.6	5546.5	5514.2	5355.4	5070.1	4688.0	4319.3	3958.7	3735.3	3654.6	3641.1
10°	5753.7	5737.6	5605.7	5228.9	4620.7	3886.0	3267.1	2750.4	2435.5	2344.0	2231.0
12.5°	5982.5	5950.2	5662.2	4957.1	3942.6	2925.3	2152.9	1574.3	1302.5	1221.8	1221.8
15°	6203.1	6133.2	5629.9	4507.7	3108.3	1902.7	1202.9	909.6	826.2	804.7	804.7
17.5°	6429.2	6294.6	5503.4	3894.1	2147.5	1124.9	802.0	745.5	734.7	737.4	740.1
20°	6641.8	6431.9	5280.1	3156.7	1369.8	785.8	718.5	705.1	699.7	705.1	702.4
22.5°	6873.2	6558.4	4941.0	2352.1	890.8	707.8	683.6	672.8	667.4	675.5	675.5
25°	7102.0	6649.9	4491.5	1582.4	707.8	659.3	645.9	635.1	629.7	632.4	632.4
27.5°	7220.4	6614.9	3902.2	1009.2	635.1	610.9	597.4	584.0	575.9	573.2	575.9
30°	7301.1	6507.2	3181.0	718.5	575.9	546.3	532.9	522.1	500.6	487.1	492.5
32.5°	7427.6	6399.6	2397.8	602.8	527.5	481.7	460.2	433.3	403.7	390.2	390.2
35°	7578.3	6251.6	1682.0	543.6	476.3	427.9	387.5	341.8	306.8	296.0	296.0
37.5°	7777.5	6111.6	1119.5	503.2	433.3	382.1	325.6	271.8	234.1	228.7	226.1
40°	8076.2	5993.2	788.5	473.6	395.6	333.7	266.4	209.9	183.0	174.9	174.9
42.5°	8463.7	5872.1	624.3	444.0	363.3	288.0	212.6	166.9	145.3	139.9	137.2
45°	8942.7	5729.5	543.6	417.1	331.0	239.5	169.5	139.9	123.8	118.4	118.4
47.5°	9462.1	5535.7	505.9	382.1	293.3	193.8	142.6	121.1	113.0	110.3	107.6
50°	9973.4	5274.7	473.6	349.9	250.3	158.8	123.8	110.3	105.0	102.3	102.3
52.5°	10420.2	4970.6	433.3	312.2	204.5	137.2	110.3	102.3	96.9	91.5	88.8
55°	10802.3	4639.6	382.1	269.1	166.9	121.1	102.3	94.2	88.8	83.4	80.7
57.5°	11294.8	4451.2	306.8	218.0	137.2	107.6	94.2	86.1	80.7	72.7	72.7
60°	11841.1	4313.9	228.7	172.2	118.4	99.6	86.1	78.0	72.7	64.6	64.6
62.5°	12279.8	4109.4	180.3	139.9	102.3	88.8	78.0	70.0	64.6	56.5	56.5
65°	12446.6	3686.9	148.0	110.3	83.4	78.0	70.0	64.6	56.5	48.4	48.4
67.5°	11693.1	2841.9	123.8	88.8	70.0	67.3	61.9	59.2	48.4	43.1	40.4
70°	9260.3	1733.1	102.3	72.7	59.2	56.5	56.5	51.1	43.1	40.4	37.7
72.5°	6345.8	893.5	83.4	59.2	51.1	51.1	48.4	45.7	40.4	37.7	37.7
75°	3296.7	298.7	64.6	45.7	40.4	43.1	43.1	40.4	37.7	37.7	35.0
77.5°	944.6	134.6	48.4	35.0	32.3	32.3	35.0	35.0	35.0	32.3	32.3
80°	244.9	78.0	35.0	26.9	26.9	26.9	26.9	29.6	32.3	29.6	29.6
82.5°	99.6	43.1	24.2	21.5	21.5	21.5	21.5	24.2	26.9	26.9	26.9
85°	61.9	21.5	18.8	18.8	18.8	16.1	16.1	18.8	18.8	21.5	21.5
87.5°	37.7	16.1	16.1	16.1	16.1	13.5	13.5	13.5	13.5	13.5	13.5
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)