

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: P640152

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640152  
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-SA5D-730-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) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

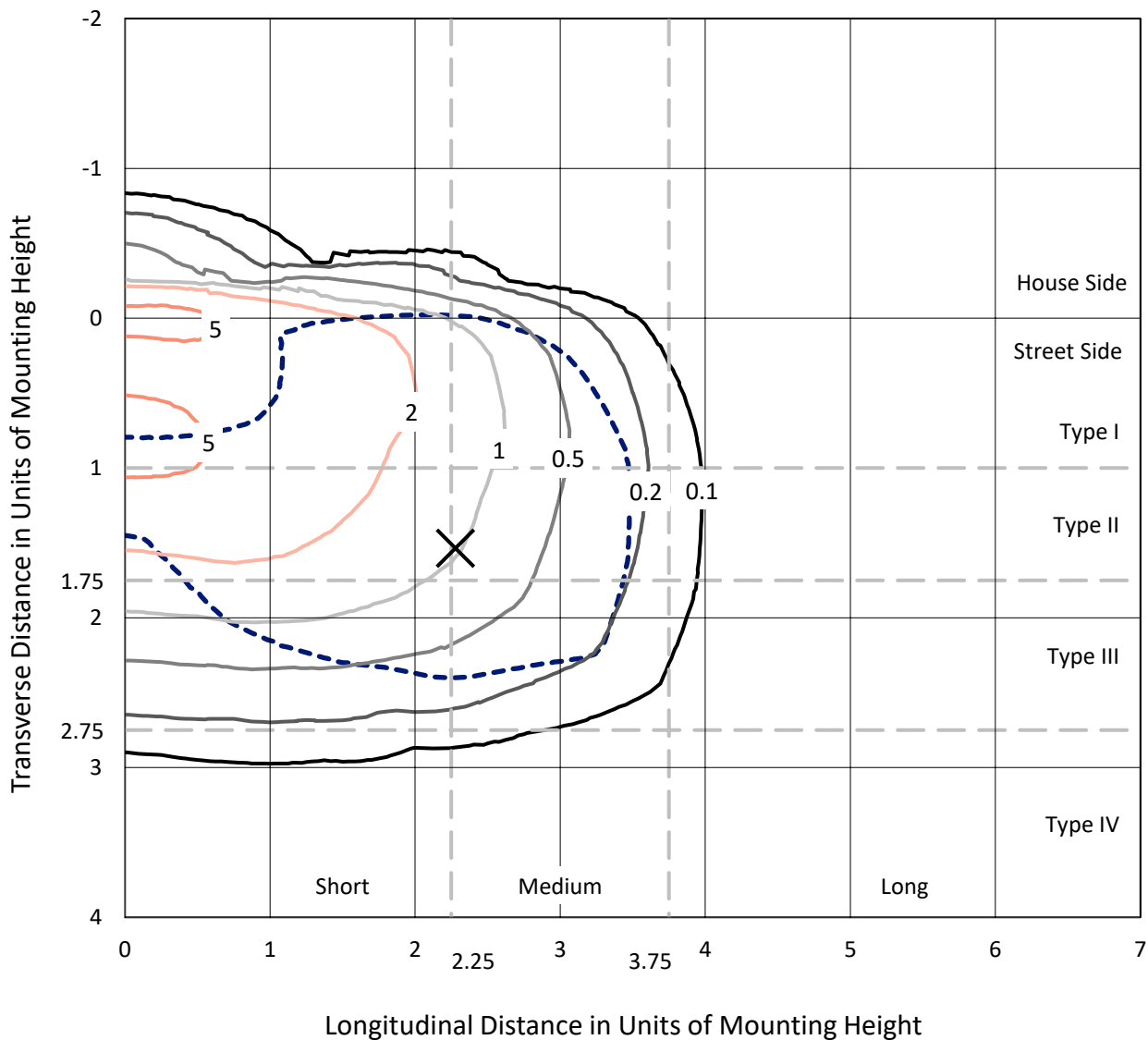
Lumens per Lamp: N/A  
Luminaire Lumens: 21414.7 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

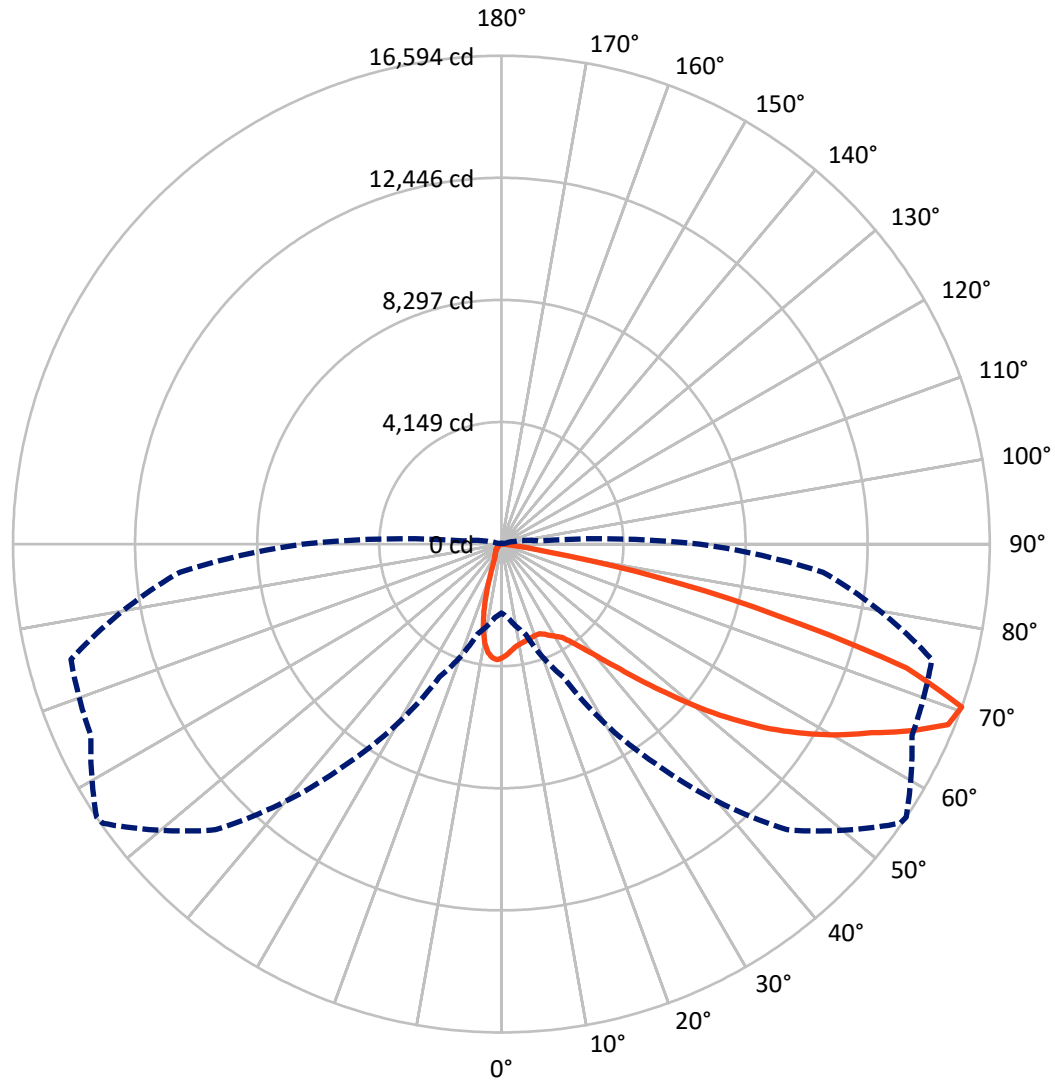
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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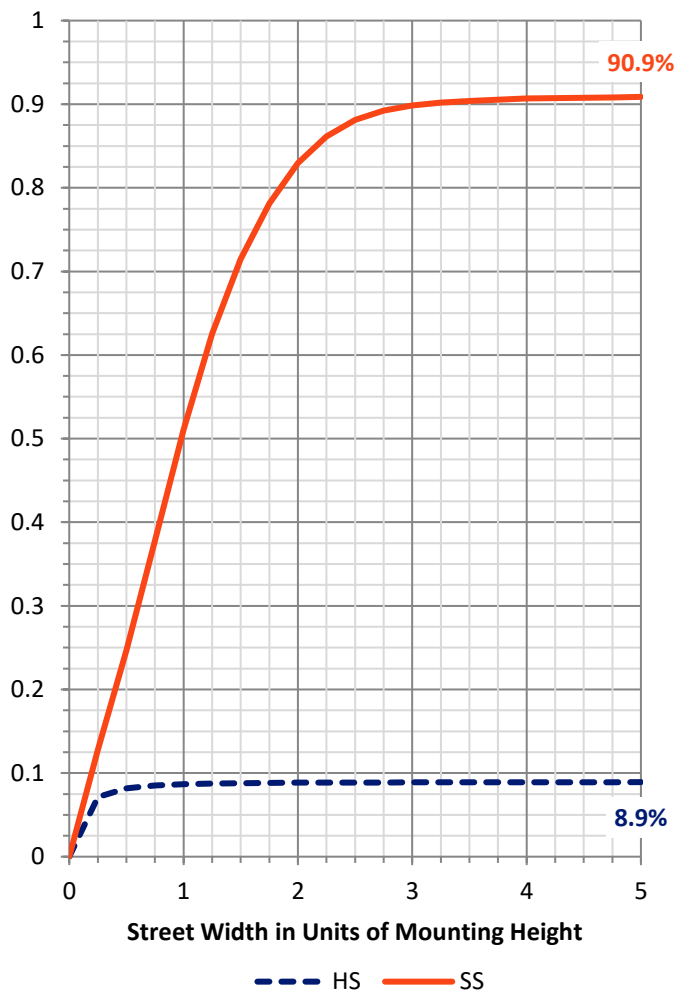
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1923.5	0.0	1923.5
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	19491.3	0.0	19491.3
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	21414.7	0.0	21414.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.5	1.5
10°-20°	745.6	3.5
20°-30°	1181.1	5.5
30°-40°	2036.8	9.5
40°-50°	3439.4	16.1
50°-60°	5053.7	23.6
60°-70°	5991.4	28.0
70°-80°	2555.0	11.9
80°-90°	80.2	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°	21414.7	100.0
0°-180°	21414.7	100.0

**Coefficient of Utilization**



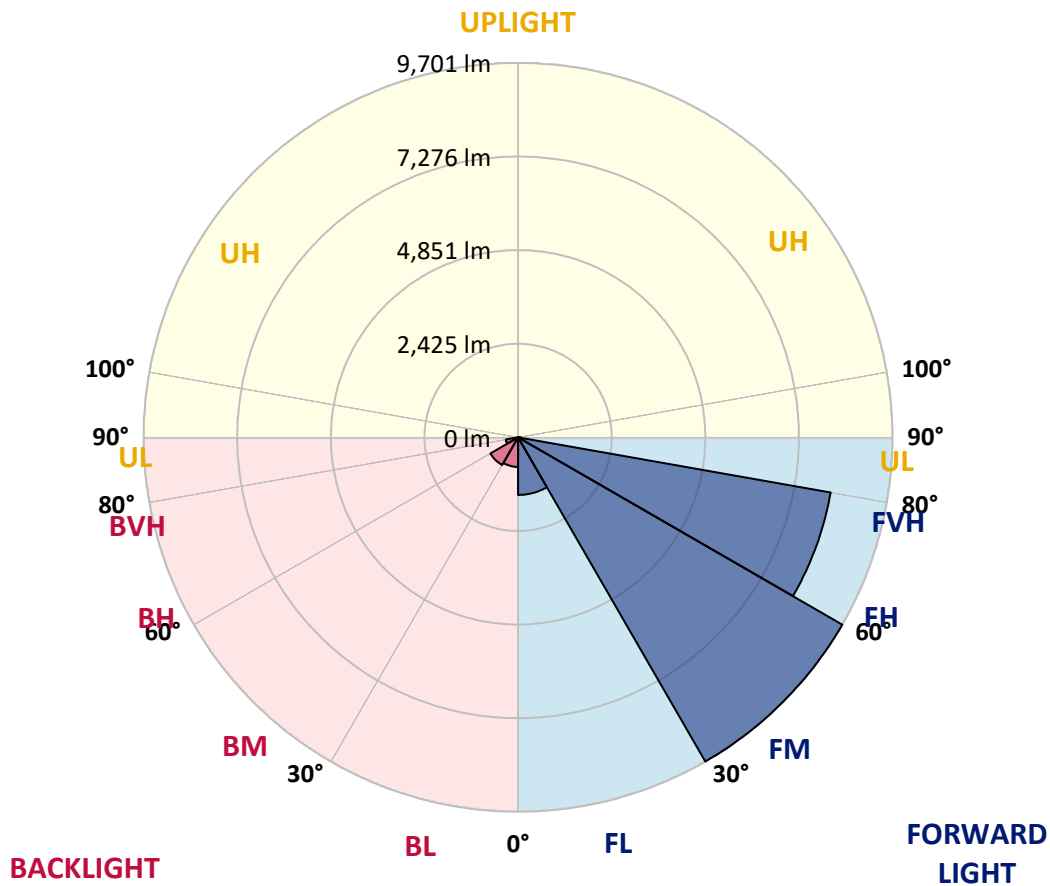
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.2	7.0			
FM (30°-60°)	9701.4	45.3			
FH (60°-80°)	8225.5	38.4			G4/12000
FVH (80°-90°)	72.1	0.3			G1/100
BL (0°-30°)	766.0	3.6	B2/1000		
BM (30°-60°)	828.5	3.9	B1/1000		
BH (60°-80°)	320.8	1.5	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3
2.5°	3594.6	3588.7	3592.6	3622.0	3676.9	3702.4	3745.6	3753.4	3788.7	3833.8	3851.5
5°	3361.2	3341.6	3351.4	3392.6	3455.4	3525.9	3606.4	3627.9	3716.2	3816.2	3890.7
7.5°	3147.5	3125.9	3149.4	3214.1	3302.4	3378.9	3498.5	3512.2	3653.4	3829.9	3965.2
10°	2812.1	2818.0	2865.1	2978.8	3114.1	3273.0	3433.8	3453.4	3627.9	3875.0	4084.8
12.5°	2555.2	2541.5	2592.5	2721.9	2912.1	3143.5	3384.8	3410.2	3629.9	3943.6	4237.8
15°	2435.6	2431.7	2453.3	2547.4	2731.7	3004.3	3339.6	3373.0	3655.4	4006.4	4382.9
17.5°	2439.5	2433.6	2431.7	2486.6	2623.9	2900.4	3290.6	3333.8	3676.9	4075.0	4535.9
20°	2610.1	2582.7	2533.7	2508.2	2590.5	2833.7	3257.3	3306.3	3708.3	4147.6	4698.6
22.5°	2967.1	2976.9	2845.5	2708.2	2669.0	2841.5	3253.4	3310.2	3777.0	4261.3	4898.7
25°	3680.9	3665.2	3422.0	3114.1	2900.4	2931.8	3322.0	3390.6	3912.3	4424.1	5086.9
27.5°	4575.1	4588.8	4255.5	3765.2	3318.1	3118.1	3447.5	3516.1	4069.2	4526.1	5212.4
30°	5549.7	5536.0	5179.1	4635.9	3910.3	3427.9	3573.0	3633.8	4147.6	4581.0	5341.9
32.5°	6471.4	6440.1	6087.1	5518.4	4665.3	3916.2	3745.6	3780.9	4251.5	4700.6	5516.4
35°	7257.8	7255.8	6948.0	6342.0	5441.9	4528.0	4041.7	4071.1	4445.7	4890.8	5773.3
37.5°	8069.7	8042.2	7697.1	7144.1	6240.0	5198.7	4494.7	4482.9	4751.6	5171.3	6089.0
40°	8736.4	8718.8	8454.0	7922.6	7069.5	5940.0	5043.8	5008.5	5114.4	5559.5	6528.3
42.5°	9230.6	9232.6	9150.2	8826.6	7948.1	6797.0	5734.1	5679.2	5677.2	6145.9	7108.8
45°	9605.2	9630.7	9754.2	9705.2	8985.5	7795.1	6618.5	6561.6	6465.5	6906.8	7773.6
47.5°	9779.7	9813.0	10185.6	10381.7	9893.4	8785.5	7671.6	7552.0	7363.7	7918.7	8516.8
50°	9762.1	9820.9	10340.6	10936.7	10717.1	9789.5	8818.8	8761.9	8454.0	8989.4	9252.2
52.5°	9362.0	9487.5	10350.4	11274.0	11350.5	10715.1	10005.2	9899.3	9750.3	10107.2	9942.5
55°	8275.6	8428.5	9936.6	11381.9	11844.7	11523.1	11166.2	11079.9	10832.8	11162.2	10544.5
57.5°	7685.3	7816.7	9065.9	11328.9	12264.3	12270.2	12199.6	12129.0	11925.1	12205.5	11250.5
60°	7330.4	7461.8	8601.1	11134.8	12644.8	13058.6	13170.3	13162.5	12868.3	13391.9	12078.0
62.5°	6810.7	6991.1	8116.7	10630.8	12915.4	13835.1	14172.4	14119.5	13792.0	14627.4	12897.8
65°	5761.5	5918.4	7124.5	9799.3	12756.6	14478.4	15258.8	15286.3	14907.8	15790.3	13544.9
67.5°	4039.7	4155.4	5353.6	8054.0	11678.0	14690.1	16370.8	16368.8	15723.6	16386.4	13258.6
70°	2341.5	2500.3	3163.2	4979.1	9085.5	13727.3	16537.4	16594.3	15392.2	15141.2	10972.0
72.5°	906.0	1037.4	1792.4	2645.4	4737.9	10515.1	14225.4	14392.1	12882.1	11679.9	7636.3
75°	270.6	302.0	843.2	1408.0	1902.2	5079.1	9630.7	9677.7	8836.4	7285.3	3914.2
77.5°	202.0	223.6	368.7	711.9	666.8	1539.4	4983.0	5441.9	4690.8	2602.3	1078.6
80°	137.3	162.8	262.8	347.1	247.1	409.9	1400.2	1537.5	1431.6	584.4	270.6
82.5°	60.8	78.4	186.3	174.5	90.2	117.7	431.4	458.9	296.1	176.5	94.1
85°	5.9	7.8	70.6	76.5	33.3	27.5	90.2	90.2	64.7	60.8	39.2
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	7.8	9.8	11.8	15.7	19.6
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°	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3	3861.3
2.5°	3896.6	3873.1	3902.5	3926.0	3931.9	3888.7	3863.2	3826.0	3818.1	3820.1	3810.3
5°	3949.5	3937.8	3959.3	3933.8	3867.2	3741.7	3633.8	3514.2	3449.5	3412.2	3408.3
7.5°	4047.6	4041.7	4018.2	3902.5	3694.6	3416.1	3147.5	2884.7	2721.9	2663.1	2653.3
10°	4192.7	4180.9	4084.8	3810.3	3367.1	2831.7	2380.7	2004.2	1774.7	1708.1	1625.7
12.5°	4359.4	4335.9	4126.0	3612.2	2872.9	2131.6	1568.8	1147.2	949.1	890.3	890.3
15°	4520.2	4469.2	4102.5	3284.7	2265.0	1386.5	876.6	662.8	602.0	586.4	586.4
17.5°	4684.9	4586.9	4010.3	2837.6	1564.9	819.7	584.4	543.2	535.4	537.3	539.3
20°	4839.8	4686.9	3847.6	2300.3	998.2	572.6	523.6	513.8	509.9	513.8	511.8
22.5°	5008.5	4779.1	3600.5	1713.9	649.1	515.8	498.1	490.3	486.3	492.2	492.2
25°	5175.2	4845.7	3273.0	1153.1	515.8	480.5	470.6	462.8	458.9	460.8	460.8
27.5°	5261.5	4820.2	2843.5	735.4	462.8	445.2	435.4	425.5	419.7	417.7	419.7
30°	5320.3	4741.8	2317.9	523.6	419.7	398.1	388.3	380.4	364.8	354.9	358.9
32.5°	5412.5	4663.4	1747.3	439.3	384.4	351.0	335.3	315.7	294.2	284.4	284.4
35°	5522.3	4555.5	1225.6	396.1	347.1	311.8	282.4	249.1	223.6	215.7	215.7
37.5°	5667.4	4453.5	815.8	366.7	315.7	278.5	237.3	198.1	170.6	166.7	164.7
40°	5885.1	4367.2	574.6	345.1	288.3	243.2	194.1	153.0	133.4	127.5	127.5
42.5°	6167.5	4279.0	455.0	323.6	264.7	209.8	154.9	121.6	105.9	102.0	100.0
45°	6516.5	4175.1	396.1	304.0	241.2	174.5	123.5	102.0	90.2	86.3	86.3
47.5°	6895.0	4033.9	368.7	278.5	213.8	141.2	103.9	88.2	82.4	80.4	78.4
50°	7267.6	3843.6	345.1	254.9	182.4	115.7	90.2	80.4	76.5	74.5	74.5
52.5°	7593.1	3622.0	315.7	227.5	149.0	100.0	80.4	74.5	70.6	66.7	64.7
55°	7871.6	3380.8	278.5	196.1	121.6	88.2	74.5	68.6	64.7	60.8	58.8
57.5°	8230.5	3243.6	223.6	158.8	100.0	78.4	68.6	62.8	58.8	52.9	52.9
60°	8628.6	3143.5	166.7	125.5	86.3	72.6	62.8	56.9	52.9	47.1	47.1
62.5°	8948.2	2994.5	131.4	102.0	74.5	64.7	56.9	51.0	47.1	41.2	41.2
65°	9069.8	2686.6	107.9	80.4	60.8	56.9	51.0	47.1	41.2	35.3	35.3
67.5°	8520.7	2070.9	90.2	64.7	51.0	49.0	45.1	43.1	35.3	31.4	29.4
70°	6747.9	1262.9	74.5	52.9	43.1	41.2	41.2	37.3	31.4	29.4	27.5
72.5°	4624.1	651.1	60.8	43.1	37.3	37.3	35.3	33.3	29.4	27.5	27.5
75°	2402.3	217.7	47.1	33.3	29.4	31.4	31.4	29.4	27.5	27.5	25.5
77.5°	688.3	98.1	35.3	25.5	23.5	23.5	25.5	25.5	25.5	23.5	23.5
80°	178.5	56.9	25.5	19.6	19.6	19.6	19.6	21.6	23.5	21.6	21.6
82.5°	72.6	31.4	17.6	15.7	15.7	15.7	15.7	17.6	19.6	19.6	19.6
85°	45.1	15.7	13.7	13.7	13.7	11.8	11.8	13.7	13.7	15.7	15.7
87.5°	27.5	11.8	11.8	11.8	11.8	9.8	9.8	9.8	9.8	9.8	9.8
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)