

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: P632882

Luminaire Tested: GWS-SA2D-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

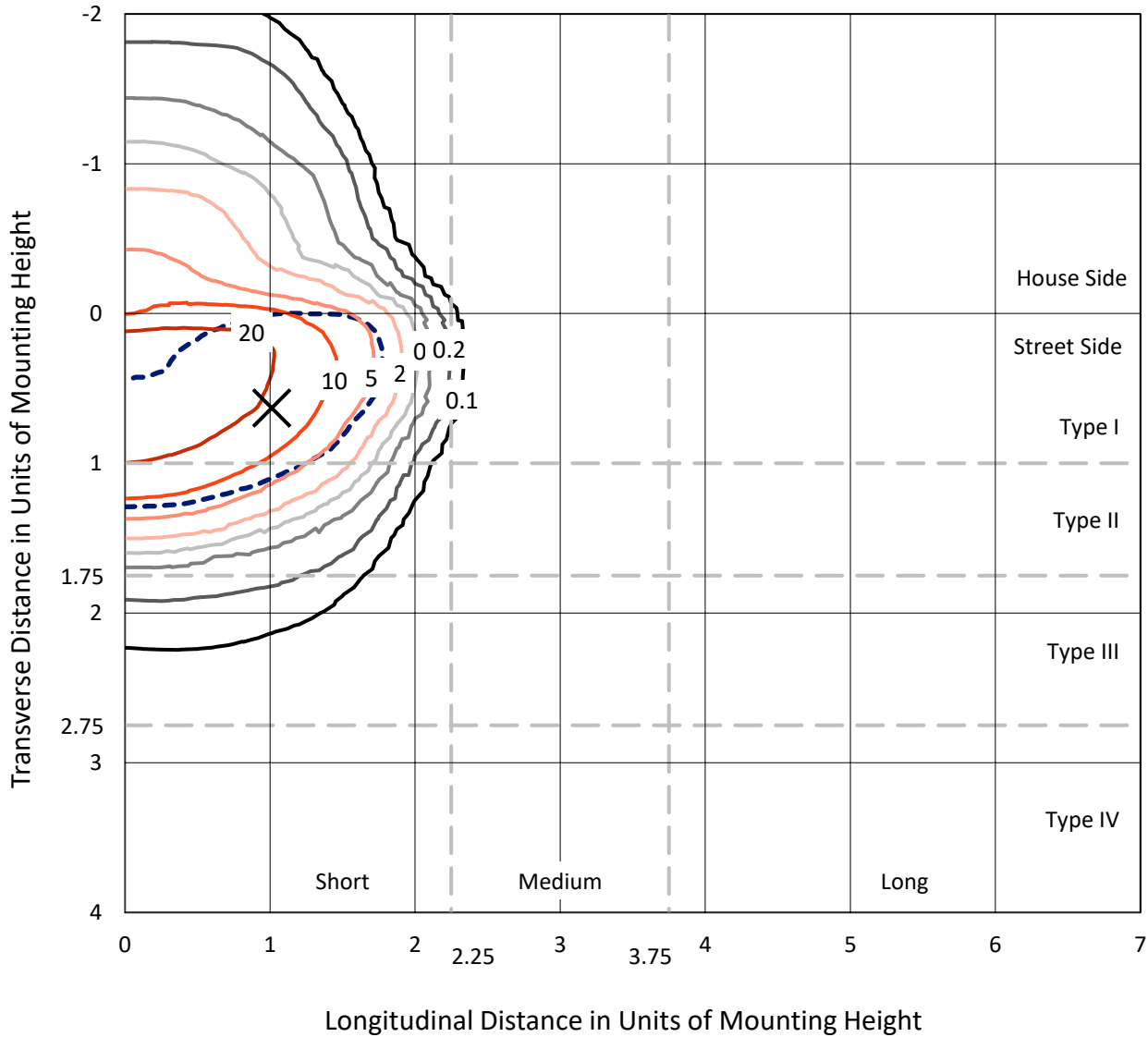
Lumens per Lamp: N/A  
Luminaire Lumens: 8006.4 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

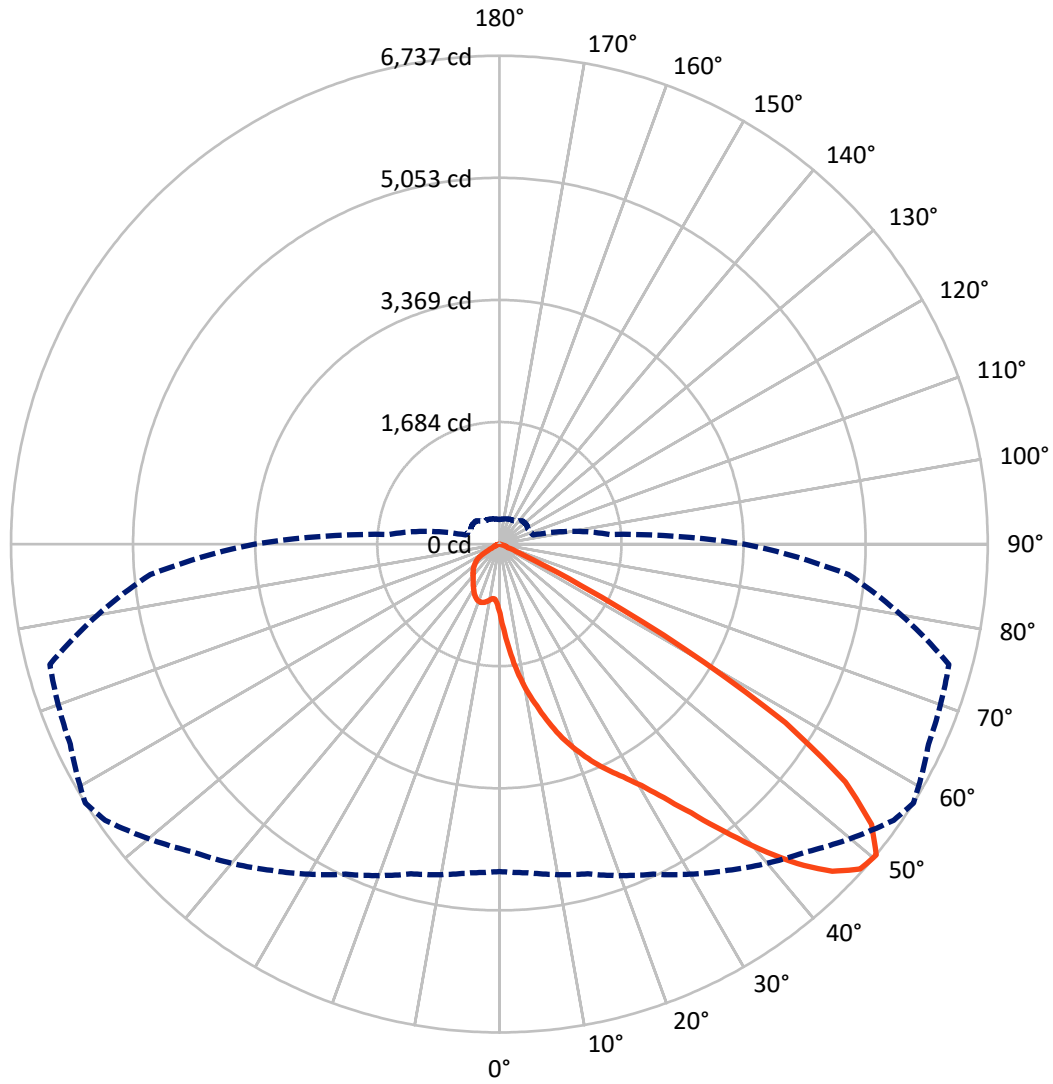
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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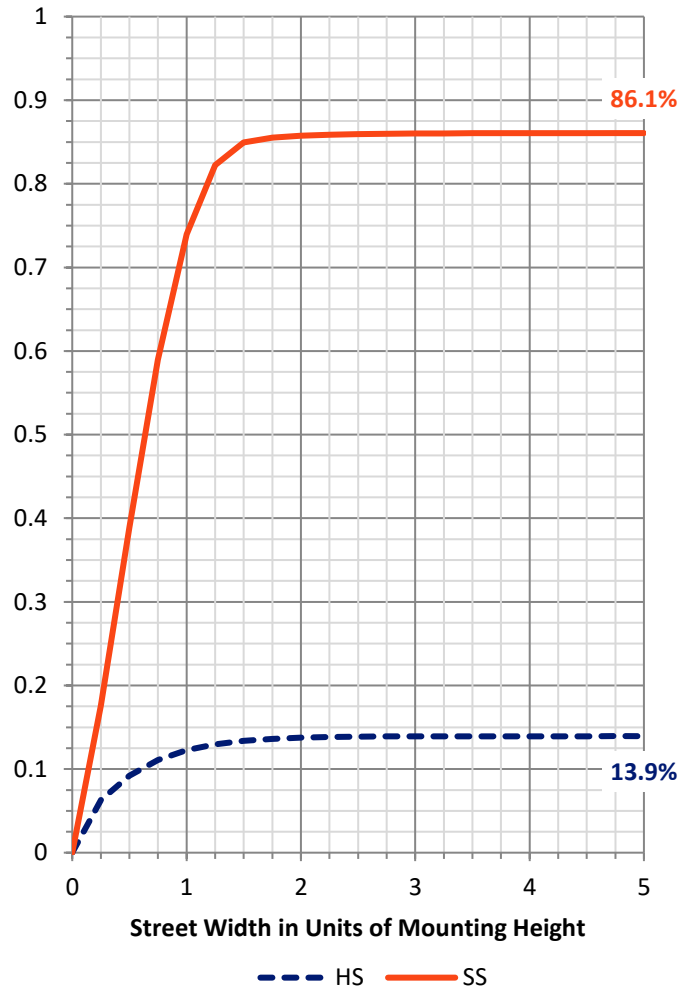
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1121.4	0.0	1121.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6885.0	0.0	6885.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8006.4	0.0	8006.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	1.5
10°-20°	469.0	5.9
20°-30°	949.1	11.9
30°-40°	1679.0	21.0
40°-50°	2447.6	30.6
50°-60°	1961.9	24.5
60°-70°	353.4	4.4
70°-80°	27.9	0.3
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°	8006.4	100.0
0°-180°	8006.4	100.0

**Coefficient of Utilization**



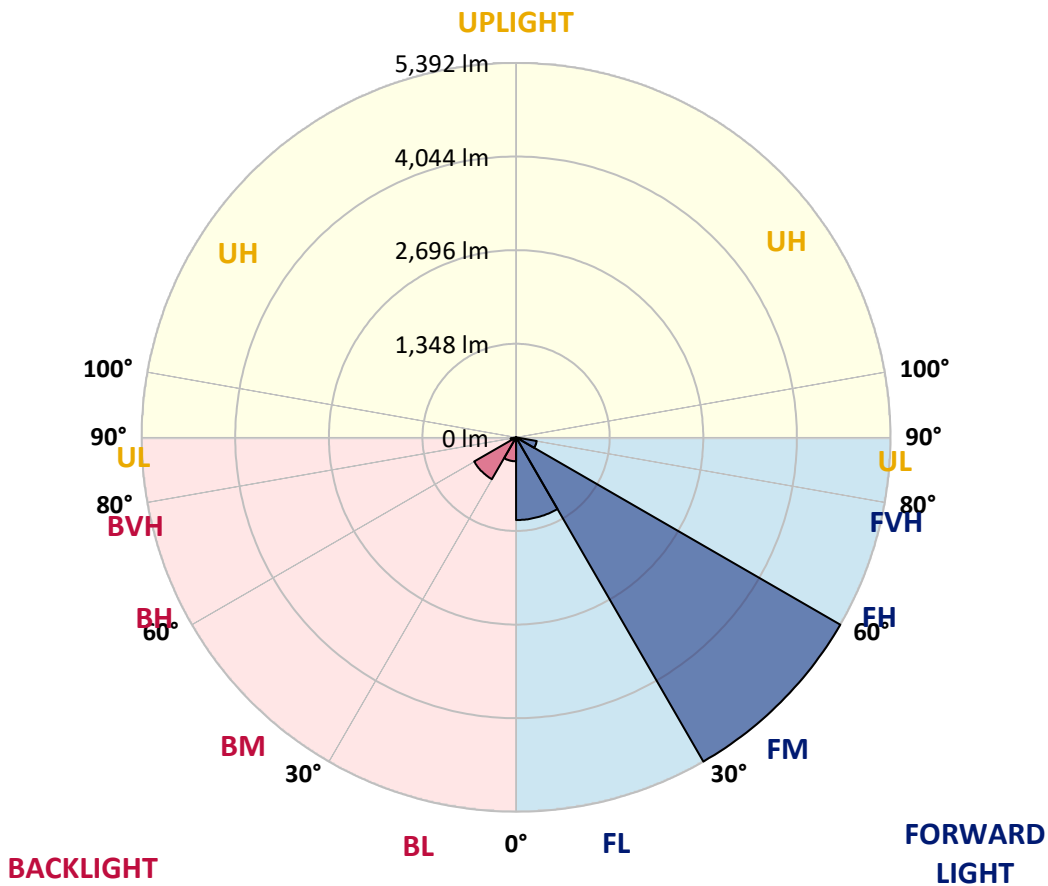
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.3	14.9			
FM (30°-60°)	5392.1	67.3			
FH (60°-80°)	301.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	345.2	4.3	B1/500		
BM (30°-60°)	696.4	8.7	B1/1000		
BH (60°-80°)	79.7	1.0	B0/110		G0/110
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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4
2.5°	1415.3	1393.0	1380.2	1369.9	1324.5	1252.6	1205.5	1180.7	1139.6	1070.2	1010.3
5°	1846.8	1830.5	1800.5	1780.0	1721.8	1619.9	1514.6	1472.6	1379.3	1222.6	1082.2
7.5°	2132.7	2120.8	2109.6	2082.2	2027.4	1935.0	1818.5	1774.9	1631.0	1408.4	1178.1
10°	2352.8	2343.4	2330.5	2329.7	2286.9	2203.8	2089.9	2044.6	1888.7	1610.5	1291.1
12.5°	2546.3	2538.6	2536.0	2560.0	2532.6	2470.9	2347.6	2291.1	2125.9	1816.8	1416.1
15°	2679.0	2677.3	2688.4	2735.5	2750.9	2722.6	2619.0	2558.3	2368.2	2024.0	1554.0
17.5°	2739.8	2744.9	2766.3	2847.6	2916.1	2940.1	2860.5	2809.1	2608.8	2233.8	1701.2
20°	2843.4	2841.7	2854.5	2931.6	3015.5	3101.1	3077.1	3033.4	2851.9	2455.5	1864.8
22.5°	3135.3	3110.5	3083.1	3095.1	3125.0	3225.2	3269.7	3247.5	3102.8	2683.3	2033.4
25°	3584.0	3558.3	3470.1	3384.5	3328.0	3373.3	3434.1	3445.3	3351.9	2917.0	2209.8
27.5°	4060.0	4036.9	3937.6	3809.1	3647.3	3568.5	3613.9	3636.2	3596.8	3195.3	2397.3
30°	4506.1	4475.2	4366.5	4207.3	4019.8	3899.0	3847.7	3863.1	3886.2	3524.9	2617.3
32.5°	4893.1	4869.9	4739.8	4572.0	4391.3	4265.5	4145.6	4171.3	4227.8	3928.1	2899.0
35°	5221.0	5209.0	5071.1	4904.2	4713.3	4649.0	4546.3	4551.4	4607.9	4415.3	3242.3
37.5°	5506.1	5485.5	5360.5	5205.6	5054.0	5043.7	5015.5	5018.1	5047.2	4983.0	3637.0
40°	5685.9	5667.0	5578.0	5482.1	5374.2	5375.9	5522.3	5533.5	5500.1	5540.3	4054.0
42.5°	5753.5	5739.8	5691.9	5692.7	5681.6	5732.1	6006.9	6027.5	5907.6	5977.8	4410.2
45°	5636.2	5630.2	5633.7	5756.9	5890.5	6046.3	6403.4	6439.3	6269.8	6268.1	4688.4
47.5°	5257.8	5245.8	5346.0	5555.7	5864.8	6167.9	6643.1	6698.7	6523.2	6434.2	4863.1
50°	4516.3	4550.6	4709.0	5024.1	5494.1	6001.0	6640.5	6737.3	6532.6	6419.6	4834.0
52.5°	3271.5	3264.6	3611.4	4044.6	4616.5	5466.7	6287.8	6429.0	6304.0	6276.6	4768.9
55°	1780.0	1842.5	2076.2	2649.9	3363.9	4455.5	5482.1	5790.3	5935.0	6224.4	4886.2
57.5°	654.1	681.5	827.9	1233.8	1780.9	2770.6	4187.6	4652.5	5099.4	6078.9	4866.5
60°	263.7	268.8	327.1	453.8	748.3	1410.1	2512.0	2924.7	3345.9	4653.3	3734.6
62.5°	191.8	198.6	221.8	265.4	378.4	616.4	1083.1	1259.4	1376.7	2304.8	1839.9
65°	155.0	160.1	178.9	198.6	250.0	331.3	349.3	336.5	334.8	595.9	422.1
67.5°	128.4	133.6	147.3	161.0	179.8	165.2	119.9	125.9	102.7	101.9	83.0
70°	94.2	100.2	113.9	128.4	107.9	44.5	69.4	102.7	77.9	65.1	63.4
72.5°	71.1	75.3	88.2	83.9	31.7	17.1	46.2	74.5	59.9	47.9	47.1
75°	53.1	55.7	44.5	13.7	3.4	4.3	17.1	30.8	33.4	27.4	27.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.6	3.4	4.3	5.1
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°	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4
2.5°	976.0	940.1	888.7	845.9	813.4	781.7	757.7	733.7	732.9	720.9	718.3
5°	1017.1	952.1	857.9	790.3	749.2	724.3	707.2	698.6	694.4	690.1	688.4
7.5°	1076.2	982.9	852.8	780.8	746.6	730.3	718.3	713.2	710.6	707.2	706.3
10°	1149.0	1027.4	871.6	798.8	768.8	753.4	740.6	732.9	728.6	722.6	720.9
12.5°	1236.3	1082.2	901.6	828.8	797.1	776.6	759.4	748.3	742.3	734.6	732.9
15°	1330.5	1141.3	934.9	856.2	818.5	792.0	770.6	753.4	742.3	732.9	730.3
17.5°	1428.1	1201.2	964.9	875.0	828.8	797.1	766.3	743.2	729.5	717.5	714.1
20°	1537.7	1262.9	984.6	878.4	825.4	783.4	747.4	718.3	704.6	688.4	684.9
22.5°	1652.4	1320.2	993.2	870.7	806.5	757.7	719.2	689.2	669.5	652.4	647.3
25°	1763.7	1371.6	988.9	849.3	778.3	721.8	682.4	651.6	630.1	613.0	608.7
27.5°	1881.9	1414.4	973.5	817.6	739.7	682.4	644.7	618.2	598.5	579.6	575.4
30°	2014.6	1453.8	948.6	779.1	694.4	642.1	613.0	595.0	573.6	553.9	548.0
32.5°	2174.7	1488.9	912.7	732.9	654.1	607.0	590.8	577.1	552.2	531.7	527.4
35°	2357.9	1518.0	867.3	684.9	614.7	584.8	581.3	563.4	530.8	506.9	501.7
37.5°	2570.2	1546.3	813.4	637.9	585.6	574.5	575.4	544.5	505.1	476.0	472.6
40°	2798.8	1574.5	753.4	596.8	559.1	568.5	560.8	517.1	452.9	424.7	421.2
42.5°	3036.9	1605.3	692.6	558.2	536.8	545.4	534.3	462.3	416.1	401.5	399.8
45°	3251.8	1642.1	626.7	519.7	514.6	512.0	493.2	418.7	399.0	388.7	387.8
47.5°	3406.7	1636.2	556.5	482.9	490.6	482.0	424.7	398.1	381.9	368.2	364.7
50°	3378.5	1531.7	483.7	441.8	459.8	452.1	381.9	374.1	359.6	345.0	339.9
52.5°	3306.6	1389.6	420.4	398.1	426.4	408.4	352.7	345.0	332.2	313.4	307.4
55°	3345.1	1256.0	370.7	363.0	392.1	338.2	320.2	308.2	294.5	274.0	271.4
57.5°	3220.9	1024.8	297.9	303.1	346.8	288.5	280.8	262.0	238.9	225.2	223.5
60°	2229.5	550.5	186.6	192.6	250.9	242.3	251.7	234.6	206.3	193.5	190.9
62.5°	1024.0	220.9	101.9	97.6	131.9	164.4	215.8	214.0	178.9	158.4	156.7
65°	248.3	101.0	72.8	68.5	74.5	98.5	140.4	168.7	144.7	120.7	118.2
67.5°	80.5	82.2	66.8	62.5	65.9	73.6	83.9	93.3	92.5	84.8	83.0
70°	64.2	74.5	61.6	56.5	56.5	59.1	56.5	45.4	39.4	42.8	44.5
72.5°	47.9	56.5	48.8	43.7	42.0	41.1	35.1	25.7	18.0	16.3	15.4
75°	28.3	31.7	30.0	25.7	24.0	21.4	17.1	11.1	6.0	4.3	2.6
77.5°	5.1	6.0	6.8	5.1	4.3	3.4	2.6	0.9	0.0	0.0	0.0
80°	0.0	0.9	0.9	0.9	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)