

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: P632772

Luminaire Tested: GWS-SA2D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632772  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

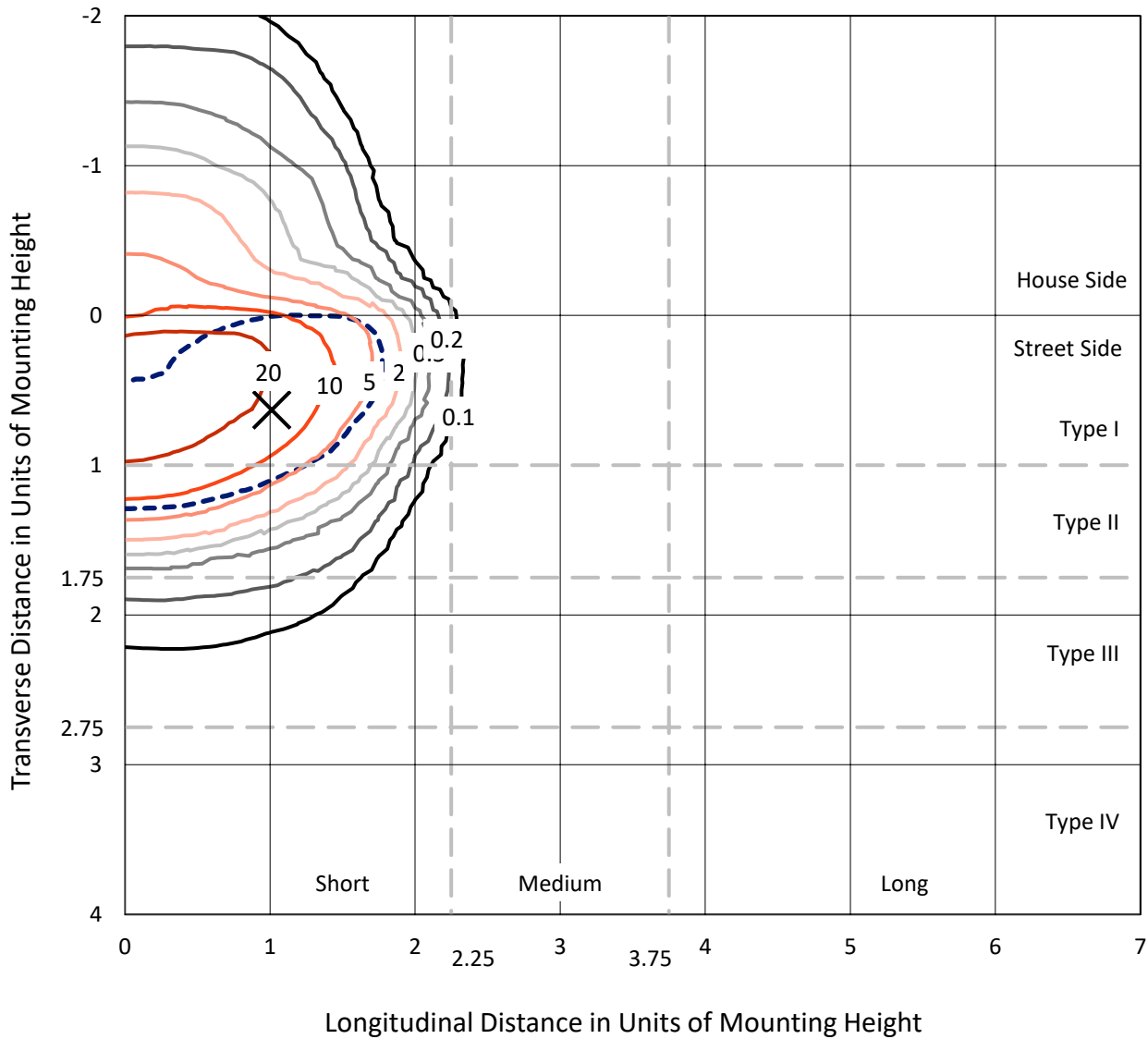
Lumens per Lamp: N/A  
Luminaire Lumens: 7719.8 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

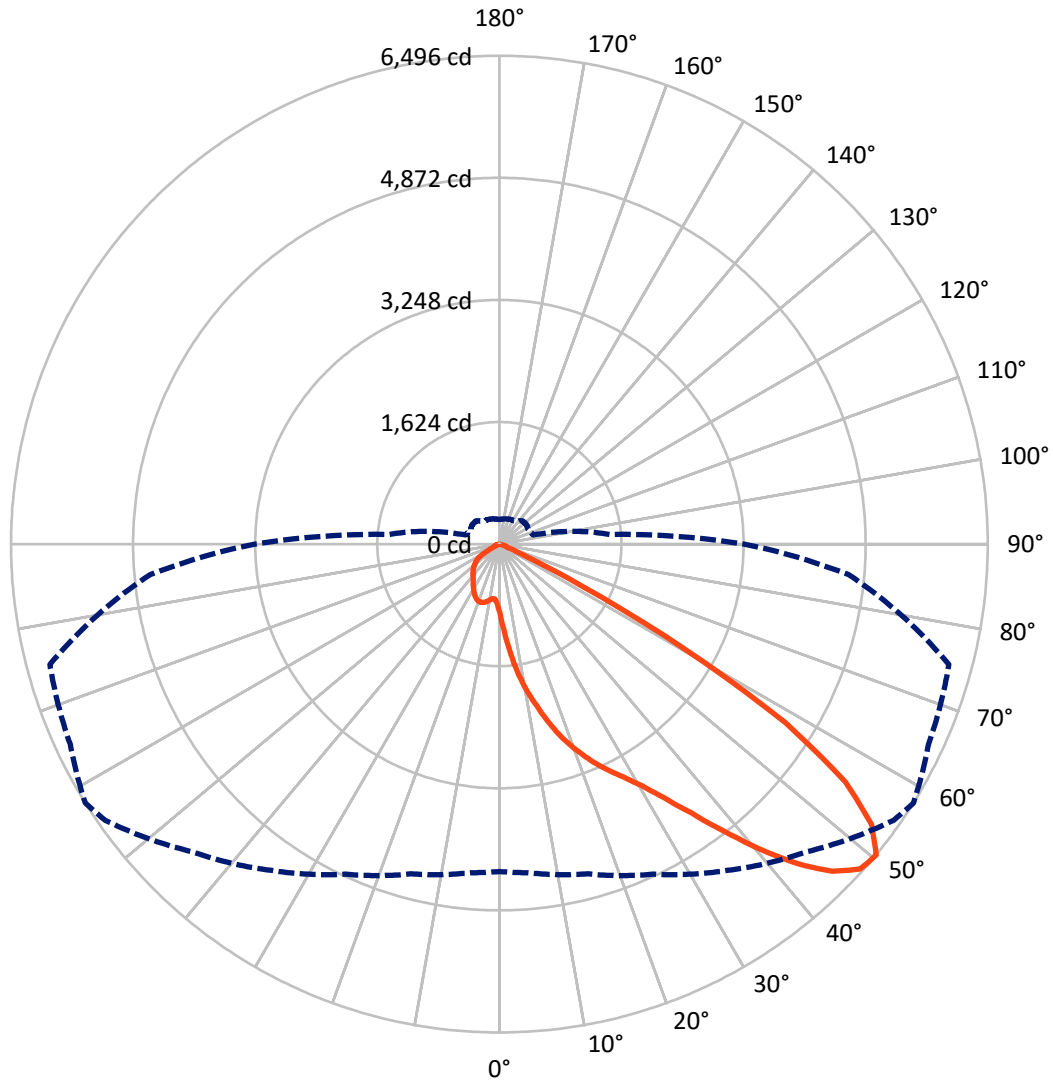
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.3 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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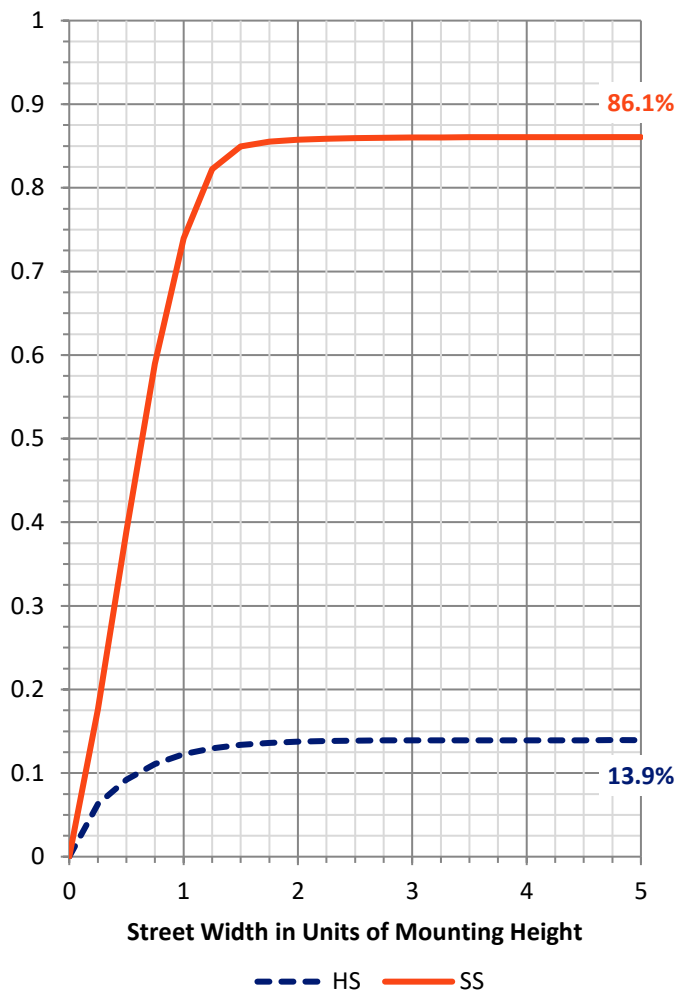
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1081.3	0.0	1081.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6638.5	0.0	6638.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7719.8	0.0	7719.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.2	1.5
10°-20°	452.2	5.9
20°-30°	915.1	11.9
30°-40°	1618.9	21.0
40°-50°	2360.0	30.6
50°-60°	1891.6	24.5
60°-70°	340.8	4.4
70°-80°	26.9	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°	7719.8	100.0
0°-180°	7719.8	100.0

**Coefficient of Utilization**



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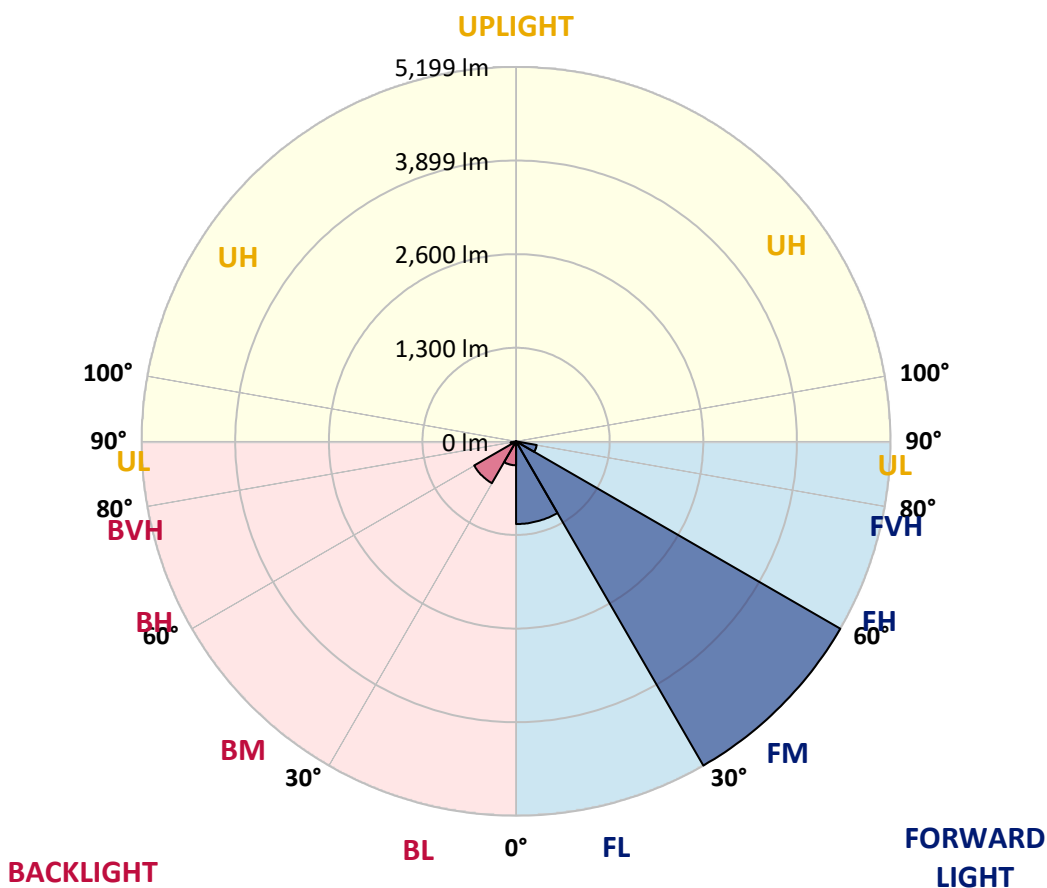
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	14.9			
FM (30°-60°)	5199.1	67.3			
FH (60°-80°)	290.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	332.9	4.3	B1/500		
BM (30°-60°)	671.5	8.7	B1/1000		
BH (60°-80°)	76.8	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°	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1
2.5°	1364.6	1343.1	1330.8	1320.8	1277.1	1207.8	1162.3	1138.4	1098.8	1031.9	974.1
5°	1780.7	1765.0	1736.1	1716.3	1660.1	1561.9	1460.4	1419.9	1329.9	1178.9	1043.5
7.5°	2056.4	2044.8	2034.1	2007.7	1954.9	1865.7	1753.4	1711.3	1572.6	1358.0	1135.9
10°	2268.6	2259.5	2247.1	2246.3	2205.0	2124.9	2015.1	1971.4	1821.1	1552.8	1244.9
12.5°	2455.1	2447.7	2445.2	2468.3	2441.9	2382.5	2263.6	2209.1	2049.8	1751.8	1365.4
15°	2583.1	2581.4	2592.2	2637.6	2652.4	2625.2	2525.3	2466.7	2283.4	1951.6	1498.3
17.5°	2641.7	2646.6	2667.3	2745.7	2811.8	2834.9	2758.1	2708.6	2515.4	2153.8	1640.3
20°	2741.6	2739.9	2752.3	2826.6	2907.5	2990.1	2967.0	2924.9	2749.8	2367.6	1798.0
22.5°	3023.1	2999.1	2972.7	2984.3	3013.2	3109.8	3152.7	3131.2	2991.7	2587.2	1960.6
25°	3455.7	3430.9	3345.9	3263.3	3208.8	3252.6	3311.2	3321.9	3231.9	2812.6	2130.7
27.5°	3914.7	3892.4	3796.6	3672.8	3516.8	3440.8	3484.6	3506.0	3468.1	3080.9	2311.5
30°	4344.8	4315.0	4210.2	4056.7	3875.9	3759.5	3709.9	3724.8	3747.1	3398.7	2523.6
32.5°	4717.9	4695.6	4570.1	4408.3	4234.1	4112.8	3997.2	4022.0	4076.5	3787.5	2795.2
35°	5034.1	5022.5	4889.6	4728.6	4544.5	4482.6	4383.6	4388.5	4443.0	4257.3	3126.3
37.5°	5309.0	5289.2	5168.6	5019.2	4873.1	4863.2	4836.0	4838.4	4866.5	4804.6	3506.9
40°	5482.3	5464.2	5378.3	5285.9	5181.9	5183.5	5324.7	5335.4	5303.2	5342.0	3908.9
42.5°	5547.6	5534.4	5488.1	5488.9	5478.2	5526.9	5791.9	5811.7	5696.2	5763.8	4252.3
45°	5434.5	5428.7	5432.0	5550.9	5679.6	5829.9	6174.1	6208.8	6045.4	6043.7	4520.6
47.5°	5069.6	5058.0	5154.6	5356.9	5654.9	5947.1	6405.3	6458.9	6289.7	6203.9	4689.0
50°	4354.7	4387.7	4540.4	4844.2	5297.4	5786.1	6402.8	6496.1	6298.8	6189.8	4660.9
52.5°	3154.3	3147.7	3482.1	3899.8	4451.3	5271.0	6062.7	6198.9	6078.4	6052.0	4598.2
55°	1716.3	1776.5	2001.9	2555.0	3243.5	4296.1	5285.9	5583.1	5722.6	6001.6	4711.3
57.5°	630.7	657.1	798.3	1189.6	1717.1	2671.4	4037.7	4485.9	4916.9	5861.3	4692.3
60°	254.3	259.2	315.4	437.5	721.5	1359.6	2422.1	2820.0	3226.2	4486.8	3601.0
62.5°	184.9	191.5	213.8	255.9	364.9	594.4	1044.3	1214.4	1327.5	2222.3	1774.1
65°	149.4	154.4	172.5	191.5	241.1	319.5	336.8	324.4	322.8	574.6	407.0
67.5°	123.8	128.8	142.0	155.2	173.4	159.3	115.6	121.4	99.1	98.2	80.1
70°	90.8	96.6	109.8	123.8	104.0	42.9	66.9	99.1	75.1	62.7	61.1
72.5°	68.5	72.6	85.0	80.9	30.5	16.5	44.6	71.8	57.8	46.2	45.4
75°	51.2	53.7	42.9	13.2	3.3	4.1	16.5	29.7	32.2	26.4	26.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	3.3	4.1	5.0
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°	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1	922.1
2.5°	941.1	906.4	856.9	815.6	784.3	753.7	730.6	707.5	706.7	695.1	692.6
5°	980.7	918.0	827.2	762.0	722.3	698.4	681.9	673.6	669.5	665.4	663.7
7.5°	1037.7	947.7	822.2	752.9	719.9	704.2	692.6	687.7	685.2	681.9	681.1
10°	1107.9	990.6	840.4	770.2	741.3	726.5	714.1	706.7	702.5	696.7	695.1
12.5°	1192.1	1043.5	869.3	799.1	768.6	748.8	732.2	721.5	715.7	708.3	706.7
15°	1282.9	1100.4	901.5	825.5	789.2	763.6	743.0	726.5	715.7	706.7	704.2
17.5°	1377.0	1158.2	930.4	843.7	799.1	768.6	738.8	716.6	703.4	691.8	688.5
20°	1482.7	1217.7	949.4	847.0	795.8	755.4	720.7	692.6	679.4	663.7	660.4
22.5°	1593.3	1273.0	957.6	839.6	777.6	730.6	693.4	664.6	645.6	629.1	624.1
25°	1700.6	1322.5	953.5	818.9	750.4	695.9	657.9	628.2	607.6	591.1	587.0
27.5°	1814.5	1363.8	938.6	788.4	713.3	657.9	621.6	596.0	577.0	558.9	554.8
30°	1942.5	1401.7	914.7	751.2	669.5	619.1	591.1	573.7	553.1	534.1	528.3
32.5°	2096.8	1435.6	880.0	706.7	630.7	585.3	569.6	556.4	532.5	512.7	508.5
35°	2273.5	1463.7	836.3	660.4	592.7	563.8	560.5	543.2	511.8	488.7	483.8
37.5°	2478.2	1490.9	784.3	615.0	564.7	553.9	554.8	525.0	487.1	459.0	455.7
40°	2698.7	1518.1	726.5	575.4	539.1	548.2	540.7	498.6	436.7	409.5	406.2
42.5°	2928.2	1547.9	667.9	538.2	517.6	525.9	515.1	445.8	401.2	387.2	385.5
45°	3135.4	1583.4	604.3	501.1	496.1	493.7	475.5	403.7	384.7	374.8	374.0
47.5°	3284.8	1577.6	536.6	465.6	473.0	464.8	409.5	383.9	368.2	355.0	351.7
50°	3257.5	1476.9	466.4	426.0	443.3	435.9	368.2	360.8	346.7	332.7	327.7
52.5°	3188.2	1339.8	405.3	383.9	411.1	393.8	340.1	332.7	320.3	302.1	296.4
55°	3225.3	1211.1	357.5	350.0	378.1	326.1	308.7	297.2	284.0	264.2	261.7
57.5°	3105.6	988.2	287.3	292.2	334.3	278.2	270.8	252.6	230.3	217.1	215.5
60°	2149.7	530.8	180.0	185.7	241.9	233.6	242.7	226.2	199.0	186.6	184.1
62.5°	987.3	213.0	98.2	94.1	127.1	158.5	208.0	206.4	172.5	152.7	151.1
65°	239.4	97.4	70.2	66.0	71.8	94.9	135.4	162.6	139.5	116.4	113.9
67.5°	77.6	79.3	64.4	60.3	63.6	71.0	80.9	90.0	89.2	81.7	80.1
70°	61.9	71.8	59.4	54.5	54.5	57.0	54.5	43.8	38.0	41.3	42.9
72.5°	46.2	54.5	47.1	42.1	40.5	39.6	33.8	24.8	17.3	15.7	14.9
75°	27.2	30.5	28.9	24.8	23.1	20.6	16.5	10.7	5.8	4.1	2.5
77.5°	5.0	5.8	6.6	5.0	4.1	3.3	2.5	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	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)