

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: P631452

Luminaire Tested: GWS-SA1F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631452  
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-SA1F-760-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

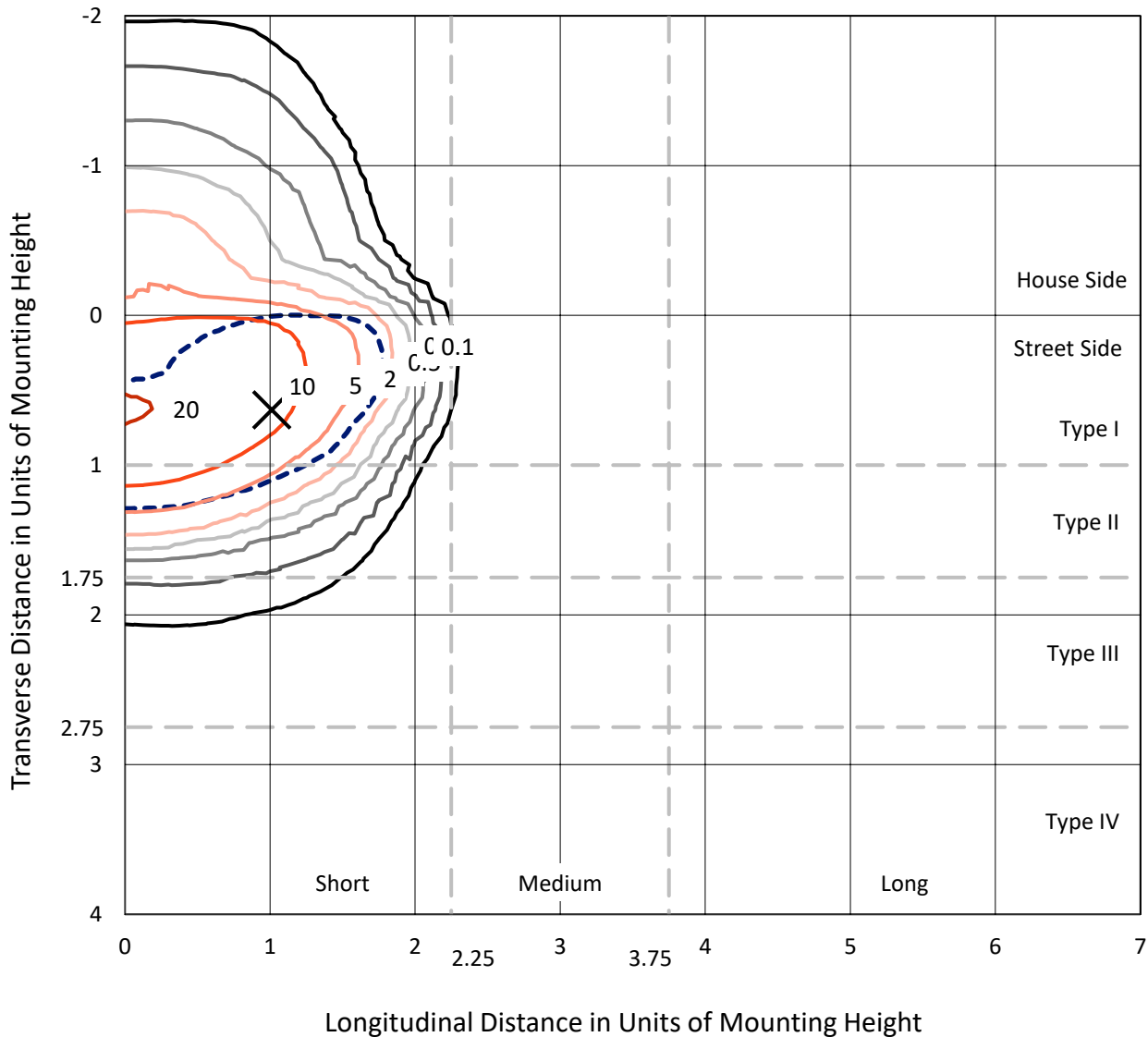
Lumens per Lamp: N/A  
Luminaire Lumens: 5697.8 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

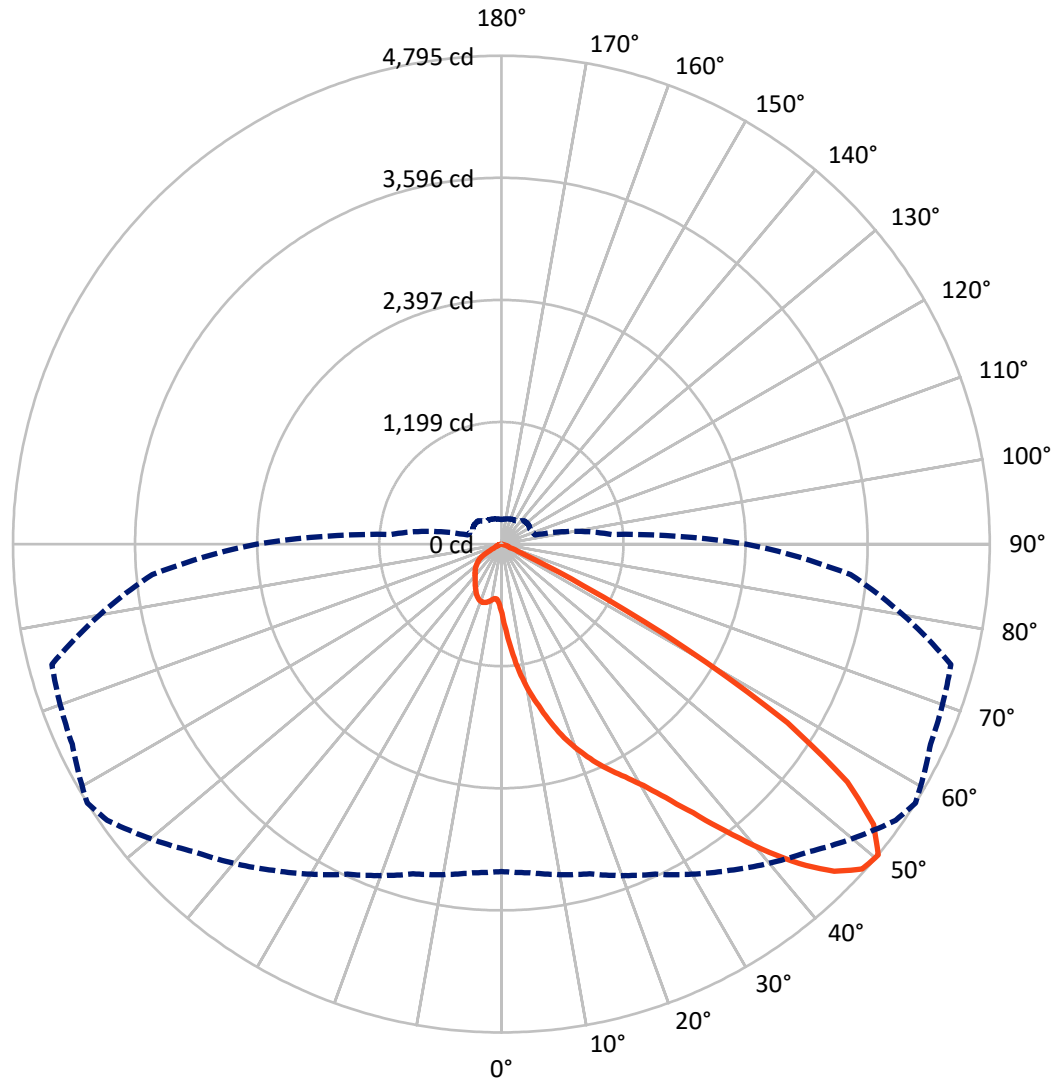
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 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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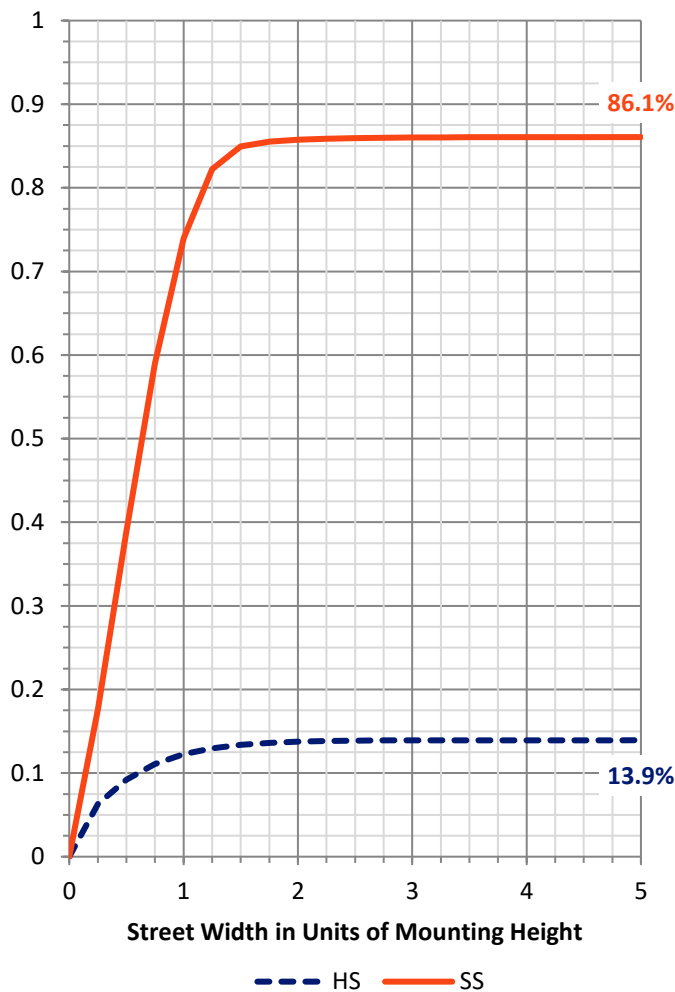
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	798.0	0.0	798.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4899.7	0.0	4899.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	5697.8	0.0	5697.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.5
10°-20°	333.8	5.9
20°-30°	675.4	11.9
30°-40°	1194.9	21.0
40°-50°	1741.9	30.6
50°-60°	1396.2	24.5
60°-70°	251.5	4.4
70°-80°	19.8	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°	5697.8	100.0
0°-180°	5697.8	100.0

**Coefficient of Utilization**



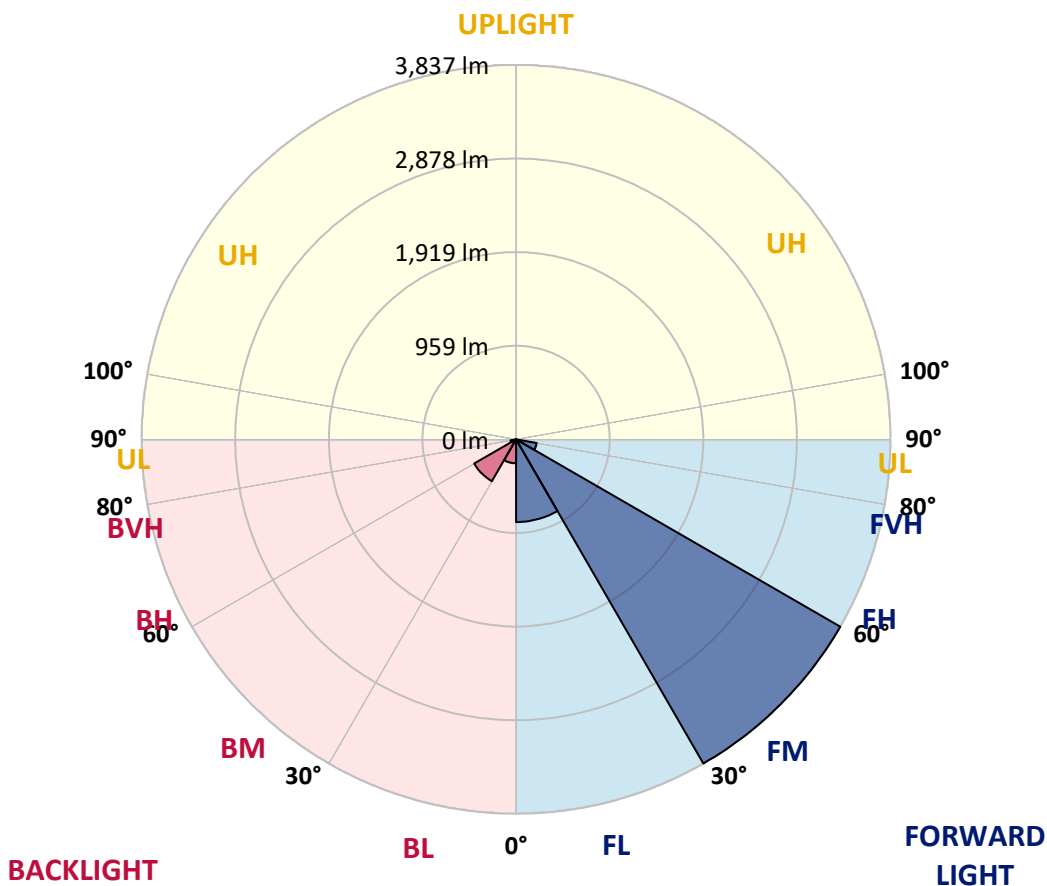
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.8	14.9			
FM (30°-60°)	3837.3	67.3			
FH (60°-80°)	214.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	245.7	4.3	B1/500		
BM (30°-60°)	495.6	8.7	B1/1000		
BH (60°-80°)	56.7	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°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	1007.2	991.3	982.2	974.9	942.6	891.4	857.9	840.2	811.0	761.6	719.0
5°	1314.3	1302.7	1281.4	1266.7	1225.3	1152.8	1077.9	1048.0	981.6	870.1	770.2
7.5°	1517.8	1509.2	1501.3	1481.8	1442.8	1377.0	1294.2	1263.1	1160.7	1002.3	838.4
10°	1674.4	1667.7	1658.5	1657.9	1627.5	1568.3	1487.3	1455.0	1344.1	1146.1	918.8
12.5°	1812.1	1806.6	1804.8	1821.8	1802.3	1758.5	1670.7	1630.5	1512.9	1292.9	1007.8
15°	1906.5	1905.3	1913.2	1946.7	1957.7	1937.6	1863.9	1820.6	1685.3	1440.4	1105.9
17.5°	1949.8	1953.4	1968.7	2026.5	2075.3	2092.3	2035.7	1999.1	1856.5	1589.7	1210.7
20°	2023.5	2022.3	2031.4	2086.3	2146.0	2206.9	2189.8	2158.8	2029.6	1747.5	1327.1
22.5°	2231.3	2213.6	2194.1	2202.6	2224.0	2295.2	2326.9	2311.1	2208.1	1909.6	1447.1
25°	2550.5	2532.3	2469.5	2408.6	2368.4	2400.7	2443.9	2451.8	2385.4	2075.9	1572.6
27.5°	2889.3	2872.9	2802.2	2710.8	2595.6	2539.6	2571.9	2587.7	2559.7	2273.9	1706.1
30°	3206.8	3184.8	3107.4	2994.1	2860.7	2774.8	2738.2	2749.2	2765.6	2508.5	1862.6
32.5°	3482.2	3465.7	3373.1	3253.7	3125.1	3035.6	2950.2	2968.5	3008.7	2795.5	2063.1
35°	3715.5	3707.0	3608.9	3490.1	3354.2	3308.5	3235.4	3239.1	3279.3	3142.2	2307.4
37.5°	3918.4	3903.8	3814.9	3704.6	3596.7	3589.4	3569.3	3571.1	3591.8	3546.1	2588.3
40°	4046.4	4033.0	3969.6	3901.4	3824.6	3825.8	3930.0	3937.9	3914.2	3942.8	2885.1
42.5°	4094.5	4084.8	4050.7	4051.3	4043.3	4079.3	4274.9	4289.5	4204.2	4254.2	3138.5
45°	4011.0	4006.8	4009.2	4097.0	4192.0	4302.9	4557.0	4582.6	4461.9	4460.7	3336.5
47.5°	3741.7	3733.2	3804.5	3953.8	4173.7	4389.4	4727.6	4767.2	4642.3	4578.9	3460.8
50°	3214.1	3238.5	3351.2	3575.4	3909.9	4270.6	4725.8	4794.6	4649.0	4568.6	3440.1
52.5°	2328.2	2323.3	2570.0	2878.4	3285.4	3890.4	4474.7	4575.3	4486.3	4466.8	3393.8
55°	1266.7	1311.2	1477.6	1885.8	2394.0	3170.8	3901.4	4120.7	4223.7	4429.6	3477.3
57.5°	465.5	485.0	589.2	878.0	1267.4	1971.7	2980.1	3311.0	3629.0	4326.1	3463.3
60°	187.7	191.3	232.8	322.9	532.5	1003.5	1787.7	2081.4	2381.2	3311.6	2657.8
62.5°	136.5	141.4	157.8	188.9	269.3	438.7	770.8	896.3	979.8	1640.2	1309.4
65°	110.3	113.9	127.3	141.4	177.9	235.8	248.6	239.5	238.2	424.1	300.4
67.5°	91.4	95.1	104.8	114.5	128.0	117.6	85.3	89.6	73.1	72.5	59.1
70°	67.0	71.3	81.0	91.4	76.8	31.7	49.4	73.1	55.4	46.3	45.1
72.5°	50.6	53.6	62.8	59.7	22.5	12.2	32.9	53.0	42.7	34.1	33.5
75°	37.8	39.6	31.7	9.7	2.4	3.0	12.2	21.9	23.8	19.5	19.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.4	3.0	3.7
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°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	694.6	669.0	632.5	602.0	578.8	556.3	539.2	522.2	521.6	513.0	511.2
5°	723.9	677.5	610.5	562.4	533.1	515.5	503.3	497.2	494.1	491.1	489.9
7.5°	765.9	699.5	606.9	555.7	531.3	519.7	511.2	507.6	505.7	503.3	502.7
10°	817.7	731.2	620.3	568.5	547.2	536.2	527.0	521.6	518.5	514.3	513.0
12.5°	879.8	770.2	641.6	589.8	567.3	552.6	540.5	532.5	528.3	522.8	521.6
15°	946.9	812.2	665.4	609.3	582.5	563.6	548.4	536.2	528.3	521.6	519.7
17.5°	1016.3	854.9	686.7	622.7	589.8	567.3	545.3	528.9	519.1	510.6	508.2
20°	1094.3	898.7	700.7	625.1	587.4	557.5	531.9	511.2	501.5	489.9	487.4
22.5°	1176.0	939.5	706.8	619.7	574.0	539.2	511.8	490.5	476.5	464.3	460.6
25°	1255.2	976.1	703.7	604.4	553.9	513.6	485.6	463.7	448.4	436.3	433.2
27.5°	1339.2	1006.6	692.8	581.9	526.4	485.6	458.8	439.9	425.9	412.5	409.5
30°	1433.7	1034.6	675.1	554.5	494.1	457.0	436.3	423.5	408.2	394.2	390.0
32.5°	1547.6	1059.6	649.5	521.6	465.5	432.0	420.4	410.7	393.0	378.4	375.3
35°	1678.0	1080.3	617.2	487.4	437.5	416.2	413.7	400.9	377.8	360.7	357.1
37.5°	1829.1	1100.4	578.8	453.9	416.8	408.8	409.5	387.5	359.5	338.8	336.3
40°	1991.8	1120.5	536.2	424.7	397.9	404.6	399.1	368.0	322.3	302.2	299.8
42.5°	2161.2	1142.4	492.9	397.3	382.0	388.1	380.2	329.0	296.1	285.8	284.5
45°	2314.1	1168.6	446.0	369.8	366.2	364.4	351.0	297.9	283.9	276.6	276.0
47.5°	2424.4	1164.4	396.0	343.6	349.1	343.0	302.2	283.3	271.7	262.0	259.6
50°	2404.3	1090.0	344.3	314.4	327.2	321.7	271.7	266.3	255.9	245.5	241.9
52.5°	2353.1	988.9	299.2	283.3	303.4	290.6	251.0	245.5	236.4	223.0	218.7
55°	2380.6	893.8	263.8	258.3	279.1	240.7	227.9	219.3	209.6	195.0	193.1
57.5°	2292.2	729.3	212.0	215.7	246.8	205.3	199.9	186.4	170.0	160.2	159.0
60°	1586.6	391.8	132.8	137.1	178.5	172.4	179.1	166.9	146.8	137.7	135.9
62.5°	728.7	157.2	72.5	69.5	93.8	117.0	153.5	152.3	127.3	112.7	111.5
65°	176.7	71.9	51.8	48.7	53.0	70.1	99.9	120.0	103.0	85.9	84.1
67.5°	57.3	58.5	47.5	44.5	46.9	52.4	59.7	66.4	65.8	60.3	59.1
70°	45.7	53.0	43.9	40.2	40.2	42.0	40.2	32.3	28.0	30.5	31.7
72.5°	34.1	40.2	34.7	31.1	29.9	29.2	25.0	18.3	12.8	11.6	11.0
75°	20.1	22.5	21.3	18.3	17.1	15.2	12.2	7.9	4.3	3.0	1.8
77.5°	3.7	4.3	4.9	3.7	3.0	2.4	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	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)