

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: P630707

Luminaire Tested: GWS-SA1E-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-730-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

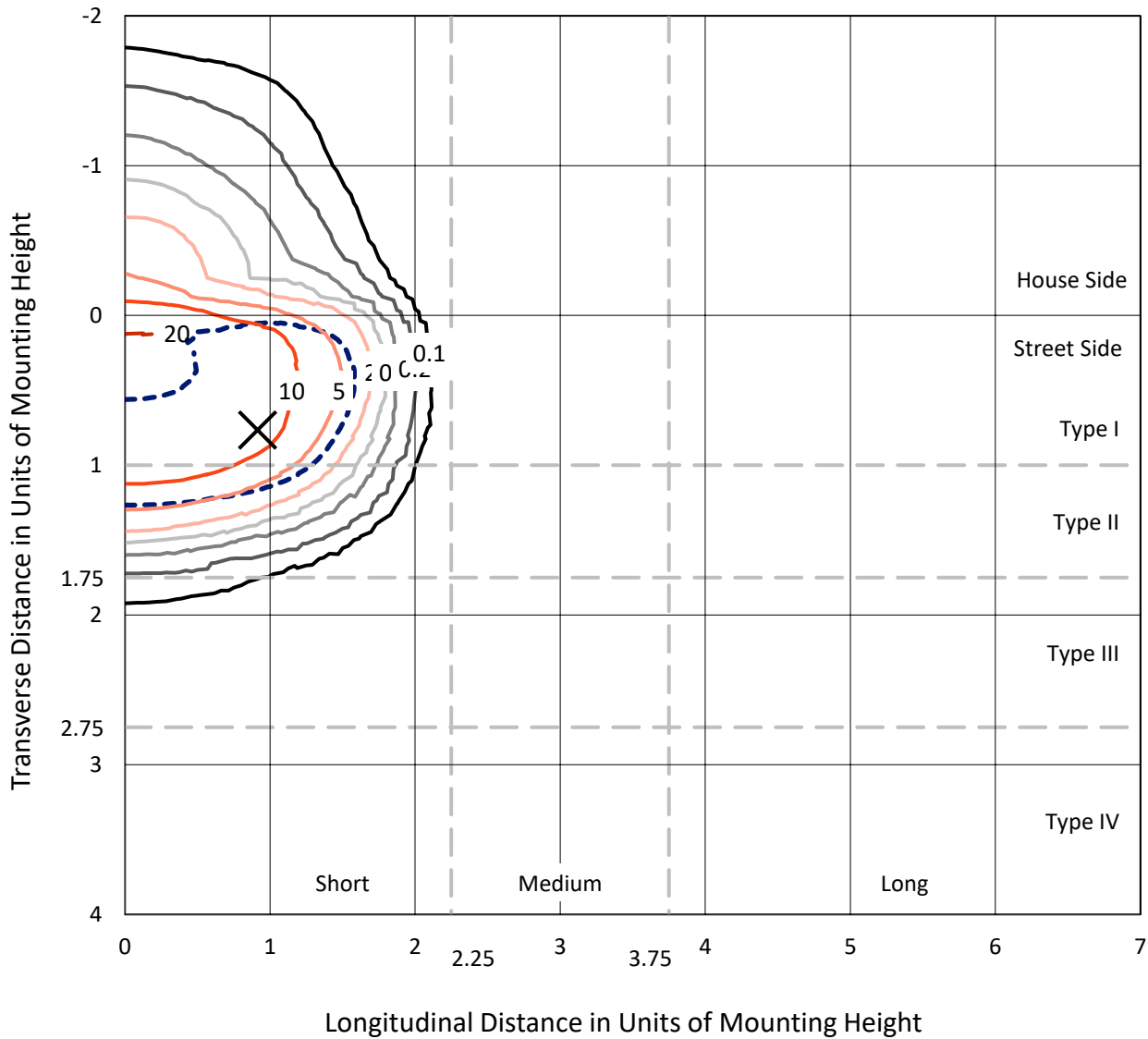
Lumens per Lamp: N/A  
Luminaire Lumens: 5196.9 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

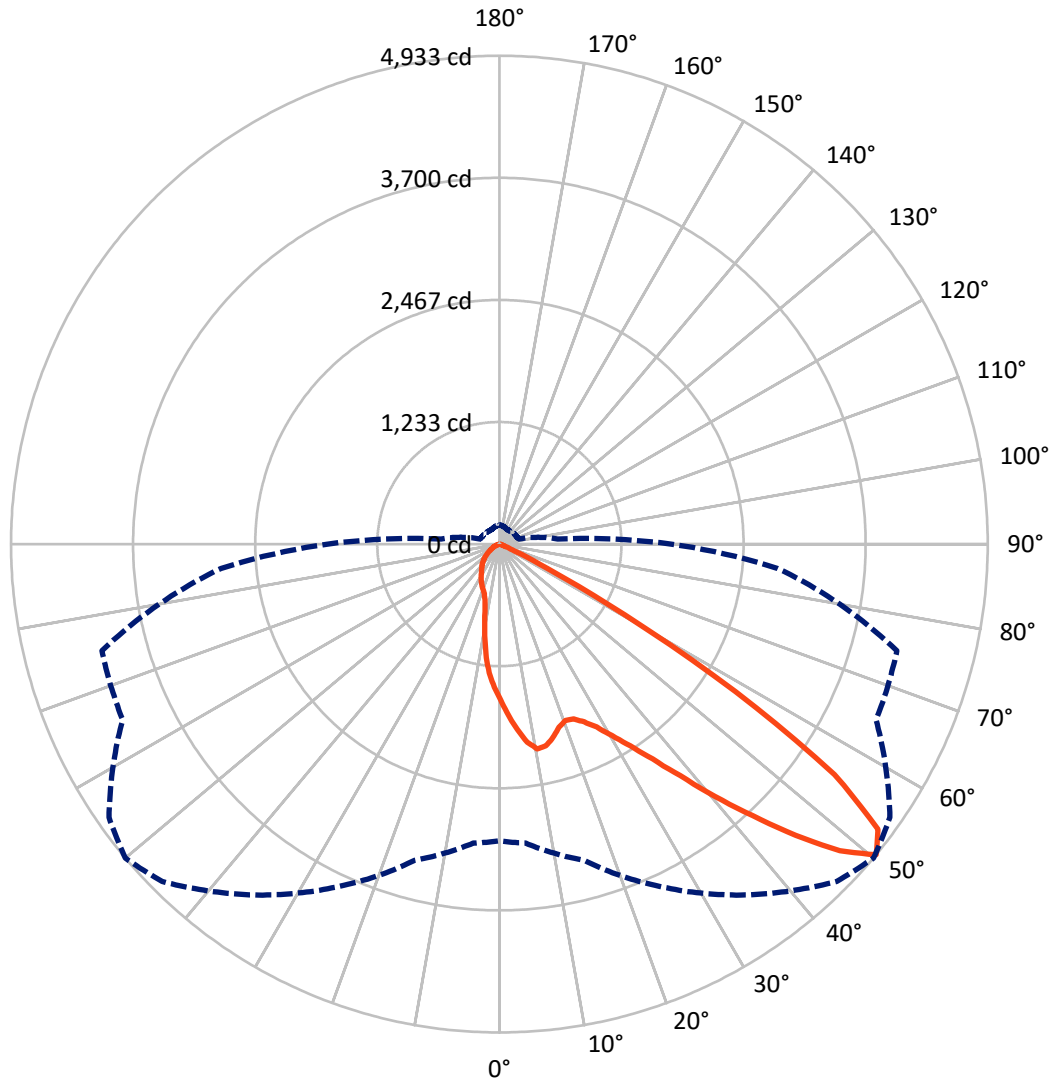
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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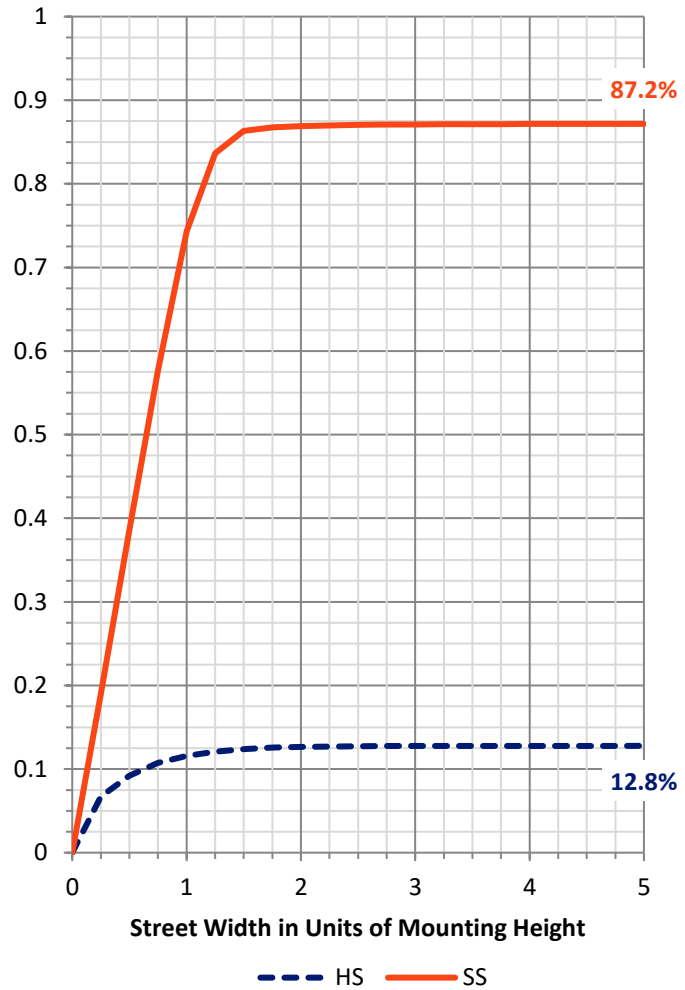
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	667.7	0.0	667.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4529.2	0.0	4529.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	5196.9	0.0	5196.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	2.8
10°-20°	376.8	7.3
20°-30°	621.9	12.0
30°-40°	1026.3	19.7
40°-50°	1623.8	31.2
50°-60°	1229.4	23.7
60°-70°	153.9	3.0
70°-80°	17.4	0.3
80°-90°	1.3	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°	5196.9	100.0
0°-180°	5196.9	100.0

**Coefficient of Utilization**



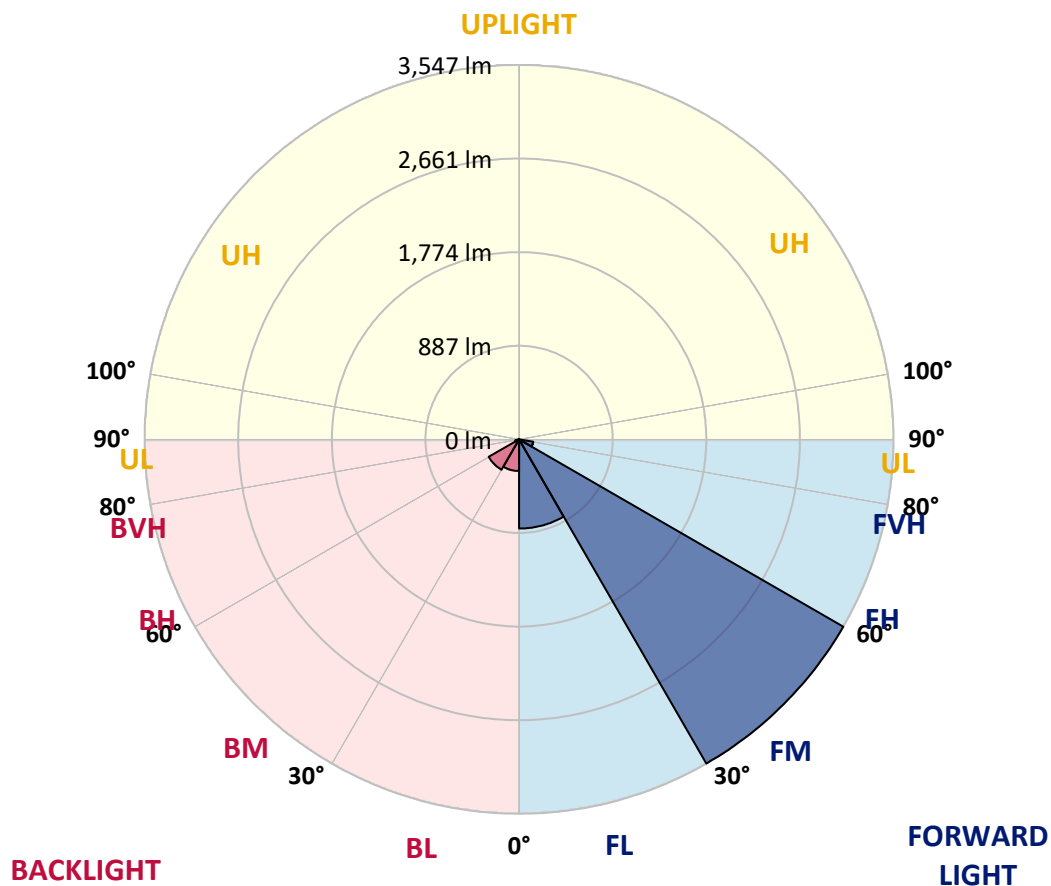
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.1	16.3			
FM (30°-60°)	3547.4	68.3			
FH (60°-80°)	136.0	2.6			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	299.7	5.8	B1/500		
BM (30°-60°)	332.1	6.4	B1/1000		
BH (60°-80°)	35.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.7	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°	50°	55°	65°	75°	85°
0°	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5
2.5°	1794.1	1808.4	1804.5	1785.7	1765.4	1751.0	1728.8	1721.9	1671.4	1636.3	1599.2
5°	2010.7	2015.2	2010.2	1987.5	1951.9	1917.7	1881.1	1859.9	1775.3	1699.1	1621.4
7.5°	2062.7	2057.2	2066.6	2078.0	2073.1	2058.2	2019.6	1996.4	1895.5	1771.3	1653.6
10°	1900.4	1888.1	1923.2	1982.0	2043.9	2113.6	2103.7	2105.7	2012.7	1862.3	1695.6
12.5°	1685.3	1680.3	1706.5	1774.8	1896.0	2054.3	2092.3	2156.2	2120.0	1960.8	1743.6
15°	1590.8	1593.3	1609.1	1652.1	1739.2	1936.0	2027.5	2142.8	2216.0	2056.2	1796.5
17.5°	1605.1	1614.0	1613.5	1627.9	1680.8	1838.6	1945.4	2100.8	2290.2	2166.0	1857.4
20°	1702.6	1711.5	1698.1	1687.2	1705.0	1813.9	1902.4	2058.2	2340.2	2276.8	1921.7
22.5°	1848.5	1858.9	1827.2	1796.1	1784.7	1854.4	1918.7	2040.9	2378.3	2378.3	1979.1
25°	2025.1	2039.4	1990.5	1935.1	1903.4	1940.0	1988.5	2080.0	2417.3	2469.3	2018.2
27.5°	2222.4	2222.9	2180.9	2118.6	2059.2	2063.7	2092.8	2168.0	2460.4	2567.2	2048.8
30°	2444.5	2446.0	2390.1	2315.4	2240.7	2220.5	2245.2	2302.1	2549.9	2690.4	2091.4
32.5°	2731.4	2738.4	2658.2	2548.4	2451.5	2413.4	2427.7	2487.6	2692.4	2844.7	2155.2
35°	3119.2	3126.6	3008.4	2863.5	2709.2	2651.8	2666.1	2726.5	2898.6	3063.8	2257.1
37.5°	3502.1	3512.0	3392.3	3257.2	3045.5	2950.6	2965.4	3022.8	3208.3	3366.6	2420.3
40°	3766.7	3780.1	3743.0	3652.0	3455.6	3330.9	3348.7	3369.5	3549.1	3728.6	2632.0
42.5°	3906.2	3925.0	3940.8	3987.3	3884.0	3779.6	3749.4	3750.9	3895.8	4097.6	2852.1
45°	3914.6	3932.9	4014.0	4193.6	4272.2	4250.5	4195.6	4158.5	4160.5	4343.5	2989.6
47.5°	3642.6	3676.7	3828.6	4180.2	4476.0	4656.6	4628.9	4540.8	4271.8	4359.8	2974.8
50°	2998.0	3031.7	3307.7	3813.7	4327.6	4818.8	4933.1	4814.9	4199.0	4156.5	2821.9
52.5°	2177.4	2180.9	2359.9	2951.1	3726.2	4519.6	4788.7	4777.3	4088.2	3910.2	2613.2
55°	1034.3	1021.9	1223.3	1665.5	2577.1	3655.4	4109.0	4237.6	3930.9	3732.1	2451.5
57.5°	301.2	307.2	396.7	650.0	1289.0	2336.2	2814.0	3053.4	3226.6	3068.3	1901.4
60°	135.0	135.5	150.9	197.9	429.4	1086.7	1454.8	1751.0	1929.1	1787.6	943.3
62.5°	97.9	98.4	104.4	111.8	145.9	368.0	545.6	727.1	740.5	484.8	238.9
65°	81.6	81.6	82.6	82.6	87.6	131.6	165.7	213.7	180.1	133.6	93.5
67.5°	65.8	66.3	67.3	67.3	65.8	65.8	71.2	78.2	83.6	103.4	86.1
70°	51.4	50.9	50.9	51.4	50.0	42.5	46.0	52.4	57.4	80.6	74.7
72.5°	40.1	40.6	40.1	38.1	34.6	25.2	27.2	34.1	36.6	50.5	50.5
75°	30.2	30.7	28.7	21.8	14.3	7.9	10.4	16.8	21.3	24.7	18.3
77.5°	4.0	4.0	3.0	3.0	2.5	3.0	3.0	4.0	5.9	5.9	4.5
80°	0.5	0.5	0.5	1.0	1.5	2.0	2.0	2.0	2.0	2.5	2.5
82.5°	0.5	0.5	0.5	0.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.5	1.0	1.5	1.5	1.5	2.0	2.0	2.0
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°	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5	1574.5
2.5°	1576.9	1548.2	1513.6	1489.9	1456.2	1434.0	1402.3	1381.0	1362.7	1348.4	1356.3
5°	1577.4	1531.9	1461.2	1400.8	1335.0	1274.7	1209.9	1159.0	1113.0	1092.2	1103.6
7.5°	1587.3	1522.0	1413.7	1306.4	1180.2	1055.6	938.8	843.9	796.9	774.6	781.5
10°	1606.6	1517.6	1360.8	1182.7	977.9	807.8	694.5	630.2	604.0	590.1	592.6
12.5°	1624.4	1514.6	1292.0	1020.0	771.6	626.7	567.9	558.9	564.4	564.9	564.4
15°	1648.7	1509.2	1206.9	852.8	617.3	541.6	543.1	556.0	568.8	572.8	571.8
17.5°	1674.4	1500.8	1097.1	692.5	523.8	516.9	534.2	551.5	564.4	566.4	566.9
20°	1701.1	1483.4	972.0	565.4	480.3	498.1	517.4	530.3	539.7	542.6	543.6
22.5°	1713.4	1446.8	827.5	474.4	451.1	474.9	489.2	506.0	509.0	498.1	500.1
25°	1707.0	1385.0	686.6	413.0	421.9	445.7	466.9	458.5	446.2	438.3	440.7
27.5°	1686.7	1302.9	548.6	368.0	390.8	420.9	423.4	414.0	412.0	405.6	407.6
30°	1665.0	1208.4	441.2	331.9	359.1	390.8	383.3	386.8	387.3	379.9	382.4
32.5°	1651.6	1109.5	351.2	307.7	338.8	344.8	359.6	366.5	367.0	349.7	352.7
35°	1656.1	1012.0	297.3	287.9	320.0	318.6	339.3	343.3	314.6	290.9	293.3
37.5°	1692.2	922.0	266.6	272.5	287.4	298.8	314.6	288.4	281.9	271.1	272.5
40°	1759.5	845.3	248.3	263.2	265.1	283.4	259.2	262.7	263.2	256.2	257.7
42.5°	1838.1	781.5	237.4	257.7	252.8	255.7	231.5	238.4	245.8	242.9	243.4
45°	1877.7	719.2	228.0	238.9	240.4	212.2	206.8	214.2	223.6	225.1	225.6
47.5°	1842.6	659.9	218.1	211.7	221.6	193.4	187.0	189.4	200.3	206.3	207.3
50°	1735.2	591.6	203.3	187.5	182.0	173.6	167.7	168.2	180.5	190.9	192.9
52.5°	1584.3	520.4	179.1	158.8	146.4	152.8	154.3	151.4	162.7	173.1	175.1
55°	1437.9	431.3	142.0	129.1	117.7	131.6	135.5	131.6	135.0	142.0	142.5
57.5°	1012.5	243.9	108.8	106.8	97.4	112.8	119.2	113.3	107.3	111.8	112.8
60°	469.4	127.6	83.6	83.6	81.1	97.0	107.8	99.4	88.0	90.0	91.5
62.5°	146.9	80.6	61.3	57.9	66.3	82.6	91.5	83.1	69.7	69.7	71.7
65°	83.1	69.3	48.5	44.5	53.9	66.3	71.7	62.8	50.9	50.0	50.0
67.5°	77.2	65.8	43.0	36.1	38.1	42.5	44.5	38.6	35.1	34.6	35.1
70°	63.8	54.9	34.6	24.7	23.2	22.8	23.7	22.3	21.3	21.8	23.2
72.5°	39.6	33.1	21.8	14.8	12.9	12.4	12.4	12.4	11.9	11.9	11.9
75°	14.3	12.4	9.9	7.4	6.4	5.9	5.9	6.4	5.9	5.4	4.9
77.5°	4.5	4.0	4.0	4.0	3.5	3.0	2.5	2.5	2.0	1.5	1.5
80°	2.5	2.5	2.5	2.5	2.0	2.0	1.5	1.0	0.5	0.5	0.0
82.5°	2.5	2.5	2.5	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.0	0.5	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)