

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: P630762

Luminaire Tested: GWS-SA1E-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630762
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628.8 lumens
Efficiency: N/A
Efficacy: 96.4 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

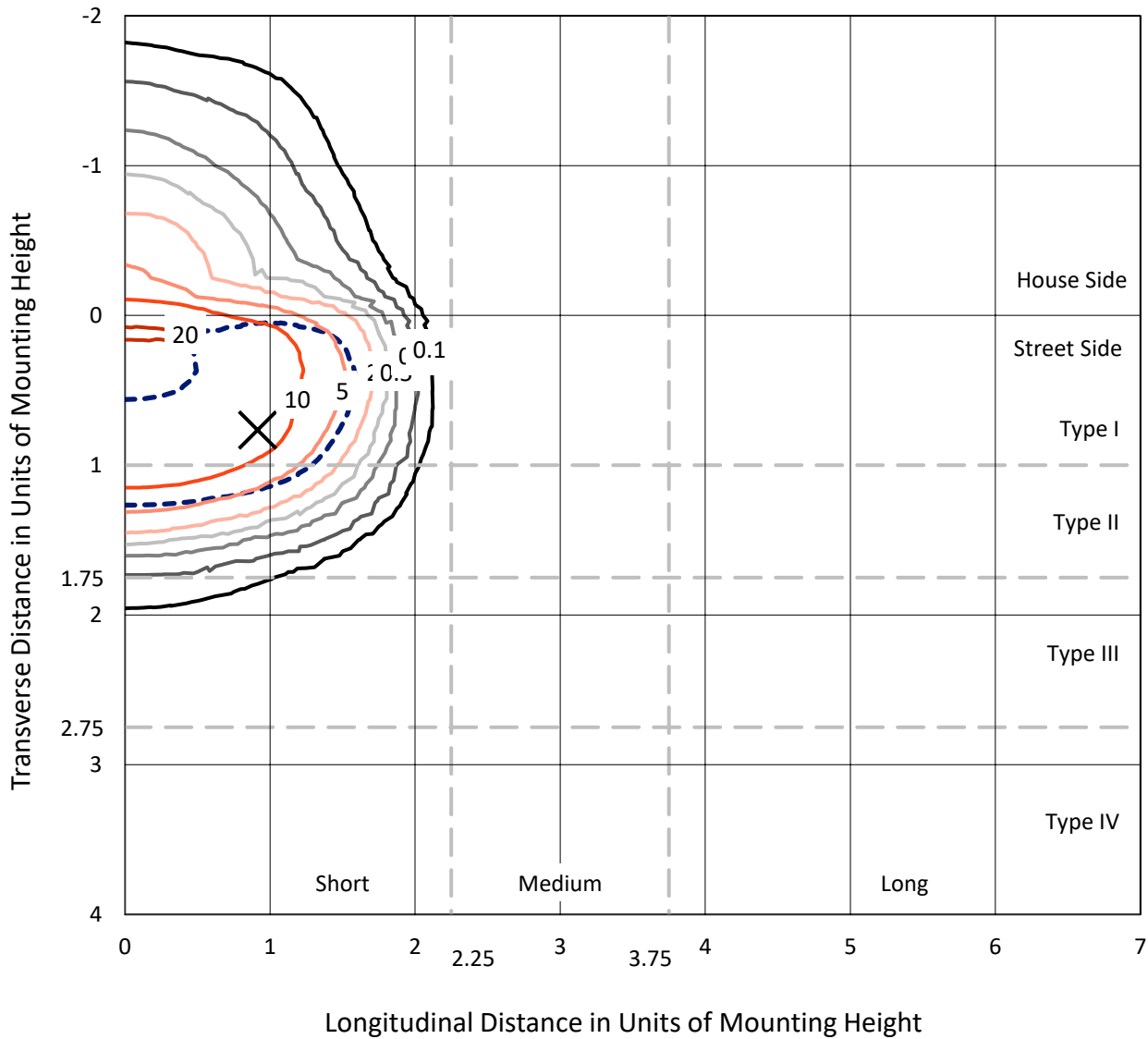
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630762
 CATALOG NUMBER: GWS-SA1E-735-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

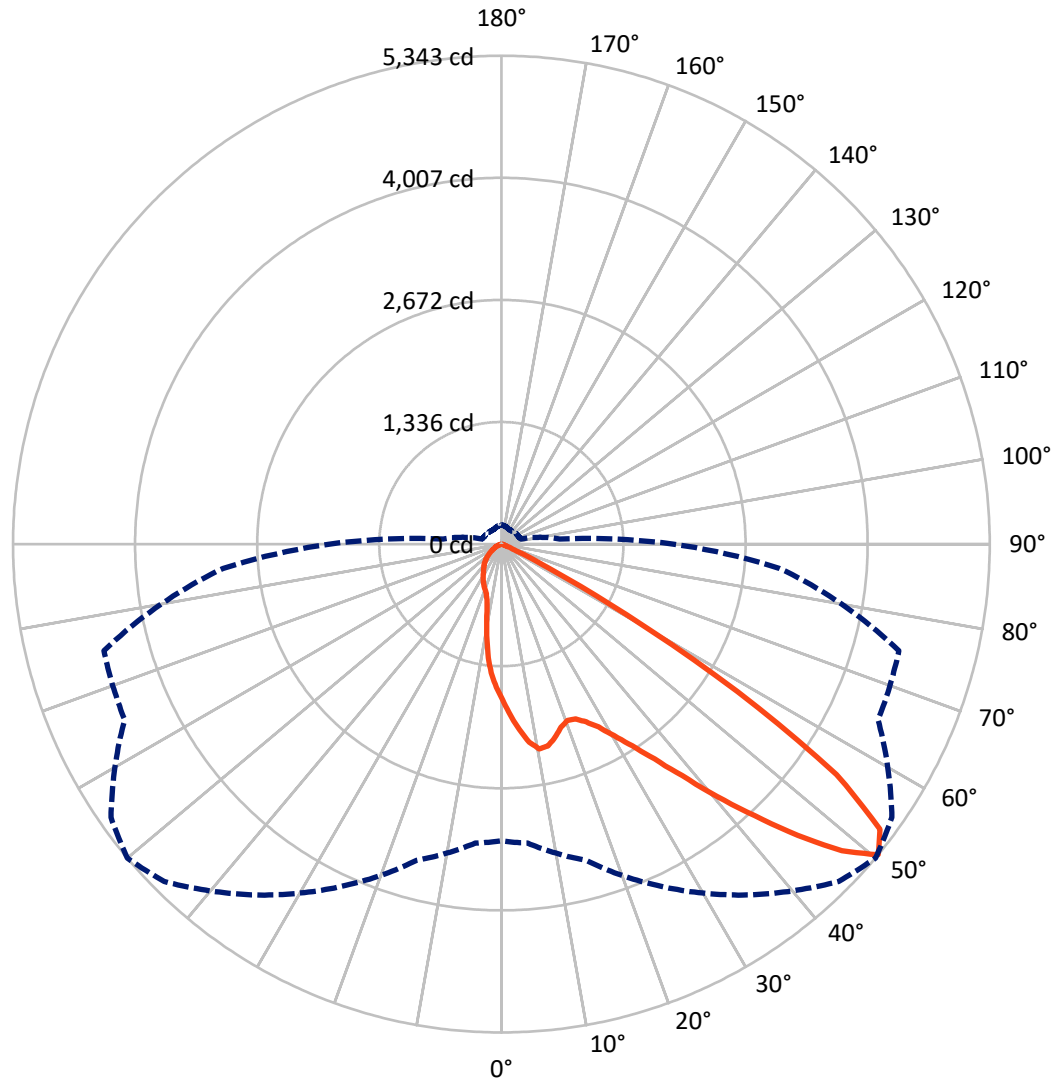
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

REPORT NUMBER: P630762
CATALOG NUMBER: GWS-SA1E-735-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P630762

CATALOG NUMBER: GWS-SA1E-735-U-AFL-W-GRSBK

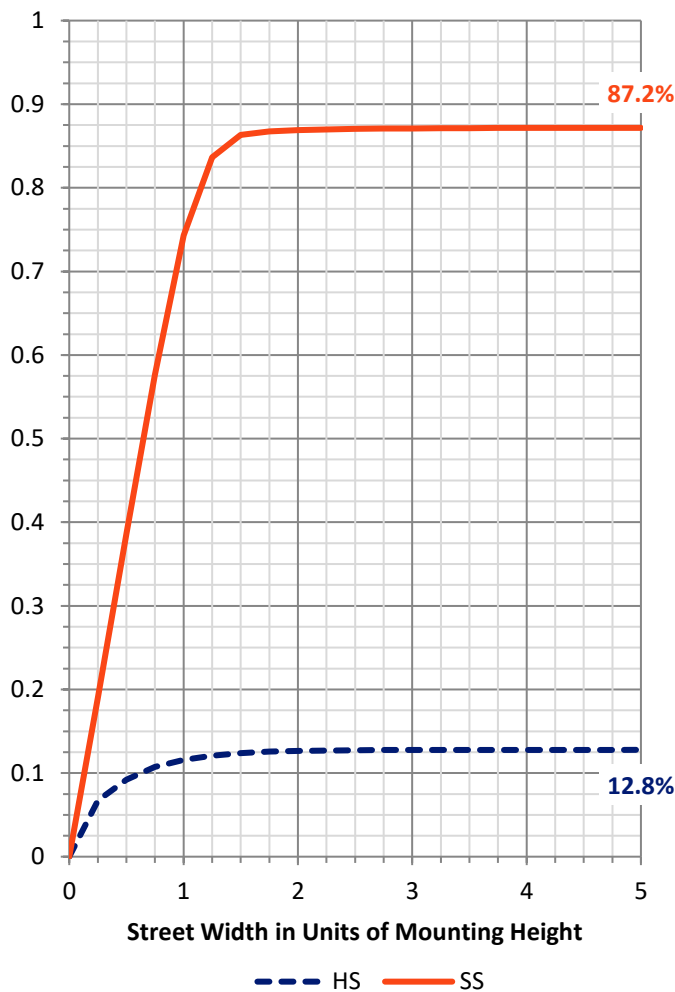
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.2	0.0	723.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	4905.6	0.0	4905.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	5628.8	0.0	5628.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	2.8
10°-20°	408.1	7.3
20°-30°	673.6	12.0
30°-40°	1111.6	19.7
40°-50°	1758.8	31.2
50°-60°	1331.6	23.7
60°-70°	166.7	3.0
70°-80°	18.9	0.3
80°-90°	1.4	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°	5628.8	100.0
0°-180°	5628.8	100.0

Coefficient of Utilization



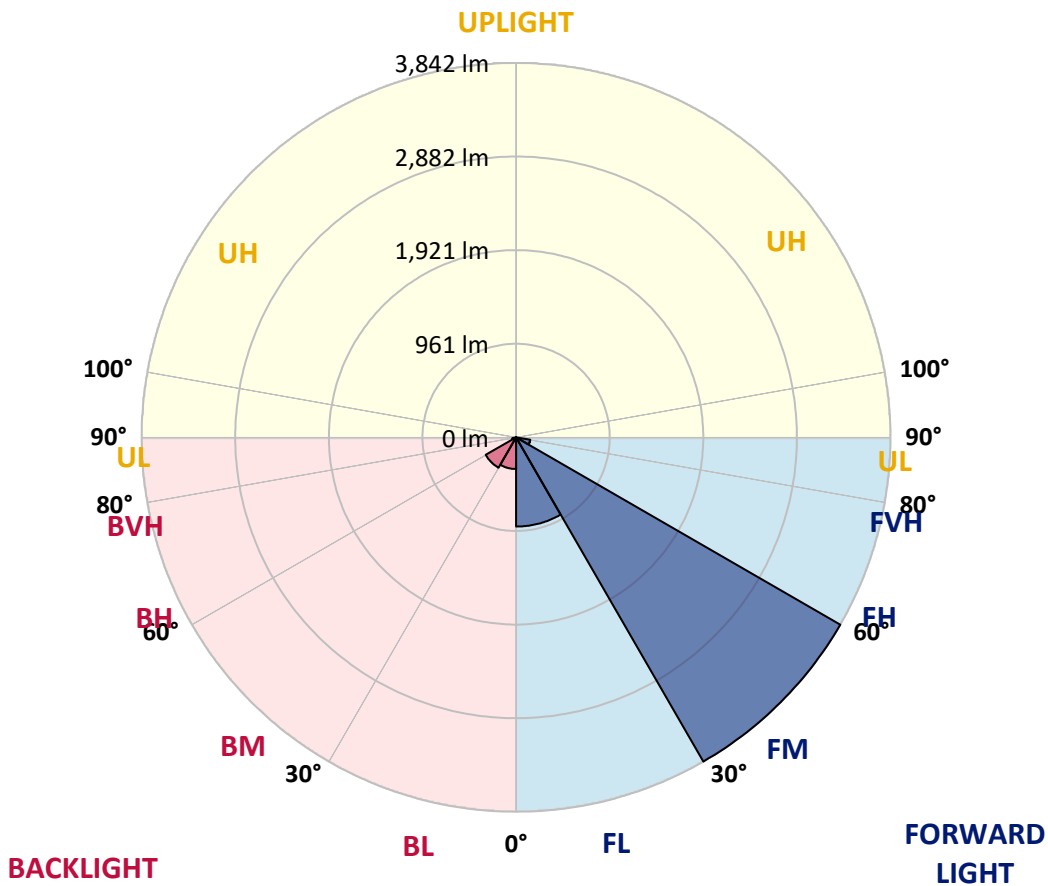
REPORT NUMBER: P630762

CATALOG NUMBER: GWS-SA1E-735-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.3	16.3			
FM (30°-60°)	3842.2	68.3			
FH (60°-80°)	147.3	2.6			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	324.6	5.8	B1/500		
BM (30°-60°)	359.7	6.4	B1/1000		
BH (60°-80°)	38.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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





REPORT NUMBER: P630762

CATALOG NUMBER: GWS-SA1E-735-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1943.2	1958.7	1954.4	1934.1	1912.1	1896.6	1872.5	1865.0	1810.3	1772.3	1732.1
5°	2177.8	2182.7	2177.3	2152.7	2114.1	2077.1	2037.5	2014.4	1922.8	1840.3	1756.2
7.5°	2234.1	2228.2	2238.4	2250.7	2245.3	2229.3	2187.5	2162.3	2053.0	1918.5	1791.0
10°	2058.4	2045.0	2083.0	2146.8	2213.7	2289.3	2278.6	2280.7	2180.0	2017.1	1836.6
12.5°	1825.3	1820.0	1848.3	1922.3	2053.5	2225.0	2266.2	2335.3	2296.2	2123.7	1888.5
15°	1723.0	1725.7	1742.8	1789.4	1883.7	2096.9	2196.1	2320.9	2400.2	2227.1	1945.9
17.5°	1738.5	1748.2	1747.6	1763.2	1820.5	1991.4	2107.1	2275.3	2480.5	2346.1	2011.8
20°	1844.1	1853.7	1839.2	1827.5	1846.7	1964.6	2060.5	2229.3	2534.6	2466.1	2081.4
22.5°	2002.1	2013.4	1979.1	1945.3	1933.0	2008.5	2078.2	2210.5	2575.9	2575.9	2143.5
25°	2193.4	2208.9	2155.9	2095.9	2061.6	2101.2	2153.7	2252.8	2618.2	2674.5	2185.9
27.5°	2407.1	2407.7	2362.1	2294.6	2230.3	2235.2	2266.8	2348.2	2664.8	2780.6	2219.1
30°	2647.7	2649.3	2588.8	2507.9	2427.0	2405.0	2431.8	2493.4	2761.8	2914.0	2265.2
32.5°	2958.4	2965.9	2879.1	2760.2	2655.2	2613.9	2629.5	2694.3	2916.1	3081.1	2334.3
35°	3378.5	3386.5	3258.5	3101.5	2934.3	2872.2	2887.7	2953.1	3139.5	3318.5	2444.6
37.5°	3793.1	3803.8	3674.2	3527.9	3298.6	3195.8	3211.8	3274.0	3474.9	3646.3	2621.4
40°	4079.8	4094.2	4054.0	3955.5	3742.8	3607.8	3627.0	3649.6	3844.0	4038.5	2850.7
42.5°	4230.8	4251.2	4268.3	4318.7	4206.7	4093.7	4061.0	4062.6	4219.6	4438.2	3089.2
45°	4240.0	4259.8	4347.6	4542.1	4627.3	4603.7	4544.3	4504.1	4506.2	4704.4	3238.1
47.5°	3945.3	3982.3	4146.7	4527.7	4848.0	5043.6	5013.6	4918.2	4626.8	4722.1	3222.0
50°	3247.2	3283.6	3582.6	4130.7	4687.3	5219.3	5343.1	5215.0	4548.0	4501.9	3056.5
52.5°	2358.4	2362.1	2556.1	3196.3	4035.8	4895.2	5186.6	5174.3	4428.0	4235.1	2830.4
55°	1120.3	1106.9	1324.9	1803.9	2791.3	3959.2	4450.5	4589.8	4257.6	4042.3	2655.2
57.5°	326.3	332.7	429.7	704.0	1396.2	2530.4	3047.9	3307.2	3494.7	3323.3	2059.4
60°	146.3	146.8	163.4	214.3	465.0	1177.0	1575.7	1896.6	2089.4	1936.2	1021.7
62.5°	106.1	106.6	113.0	121.1	158.0	398.6	590.9	787.6	802.0	525.0	258.8
65°	88.4	88.4	89.5	89.5	94.8	142.5	179.5	231.4	195.0	144.7	101.3
67.5°	71.3	71.8	72.9	72.9	71.3	71.3	77.1	84.6	90.5	112.0	93.2
70°	55.7	55.2	55.2	55.7	54.1	46.1	49.8	56.8	62.1	87.3	80.9
72.5°	43.4	43.9	43.4	41.3	37.5	27.3	29.5	37.0	39.6	54.6	54.6
75°	32.7	33.2	31.1	23.6	15.5	8.6	11.3	18.2	23.0	26.8	19.8
77.5°	4.3	4.3	3.2	3.2	2.7	3.2	3.2	4.3	6.4	6.4	4.8
80°	0.5	0.5	0.5	1.1	1.6	2.1	2.1	2.1	2.1	2.7	2.7
82.5°	0.5	0.5	0.5	0.5	1.6	1.6	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.5	1.1	1.6	1.6	1.6	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P630762
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1708.0	1676.9	1639.4	1613.7	1577.3	1553.1	1518.9	1495.8	1476.0	1460.5	1469.0
5°	1708.5	1659.2	1582.6	1517.3	1446.0	1380.6	1310.5	1255.3	1205.4	1182.9	1195.3
7.5°	1719.2	1648.5	1531.2	1414.9	1278.3	1143.3	1016.9	914.0	863.1	839.0	846.5
10°	1740.1	1643.7	1473.9	1281.0	1059.2	874.9	752.2	682.5	654.2	639.2	641.8
12.5°	1759.4	1640.5	1399.4	1104.7	835.8	678.8	615.0	605.4	611.3	611.8	611.3
15°	1785.7	1634.6	1307.2	923.6	668.6	586.6	588.3	602.2	616.1	620.4	619.3
17.5°	1813.5	1625.5	1188.3	750.1	567.4	559.9	578.6	597.4	611.3	613.4	614.0
20°	1842.5	1606.7	1052.8	612.4	520.2	539.5	560.4	574.3	584.5	587.7	588.8
22.5°	1855.8	1567.1	896.3	513.8	488.6	514.3	529.9	548.1	551.3	539.5	541.6
25°	1848.9	1500.1	743.6	447.4	457.0	482.7	505.8	496.6	483.2	474.7	477.4
27.5°	1826.9	1411.2	594.2	398.6	423.2	455.9	458.6	448.4	446.3	439.3	441.5
30°	1803.3	1308.8	477.9	359.5	389.0	423.2	415.2	419.0	419.5	411.5	414.1
32.5°	1788.9	1201.7	380.4	333.2	367.0	373.4	389.5	397.0	397.5	378.8	382.0
35°	1793.7	1096.2	322.0	311.8	346.6	345.0	367.5	371.8	340.7	315.0	317.7
37.5°	1832.8	998.6	288.8	295.2	311.3	323.6	340.7	312.3	305.4	293.6	295.2
40°	1905.7	915.6	268.9	285.0	287.2	307.0	280.7	284.5	285.0	277.5	279.1
42.5°	1990.9	846.5	257.2	279.1	273.8	277.0	250.7	258.2	266.3	263.1	263.6
45°	2033.7	779.0	247.0	258.8	260.4	229.8	223.9	232.0	242.2	243.8	244.3
47.5°	1995.7	714.7	236.3	229.3	240.0	209.5	202.5	205.2	217.0	223.4	224.5
50°	1879.4	640.8	220.2	203.1	197.2	188.0	181.6	182.2	195.5	206.8	208.9
52.5°	1716.0	563.6	193.9	172.0	158.6	165.5	167.2	163.9	176.3	187.5	189.7
55°	1557.4	467.2	153.8	139.8	127.5	142.5	146.8	142.5	146.3	153.8	154.3
57.5°	1096.7	264.1	117.9	115.7	105.5	122.2	129.1	122.7	116.3	121.1	122.2
60°	508.4	138.2	90.5	90.5	87.9	105.0	116.8	107.7	95.4	97.5	99.1
62.5°	159.1	87.3	66.4	62.7	71.8	89.5	99.1	90.0	75.5	75.5	77.7
65°	90.0	75.0	52.5	48.2	58.4	71.8	77.7	68.0	55.2	54.1	54.1
67.5°	83.6	71.3	46.6	39.1	41.3	46.1	48.2	41.8	38.0	37.5	38.0
70°	69.1	59.5	37.5	26.8	25.2	24.6	25.7	24.1	23.0	23.6	25.2
72.5°	42.9	35.9	23.6	16.1	13.9	13.4	13.4	13.4	12.9	12.9	12.9
75°	15.5	13.4	10.7	8.0	7.0	6.4	6.4	7.0	6.4	5.9	5.4
77.5°	4.8	4.3	4.3	4.3	3.8	3.2	2.7	2.7	2.1	1.6	1.6
80°	2.7	2.7	2.7	2.7	2.1	2.1	1.6	1.1	0.5	0.5	0.0
82.5°	2.7	2.7	2.7	2.1	2.1	2.1	1.6	1.1	0.5	0.0	0.0
85°	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.1	0.5	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.6	1.1	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)