

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: P630872

Luminaire Tested: GWS-SA1E-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630872
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5837.8 lumens
Efficiency: N/A
Efficacy: 100.0 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

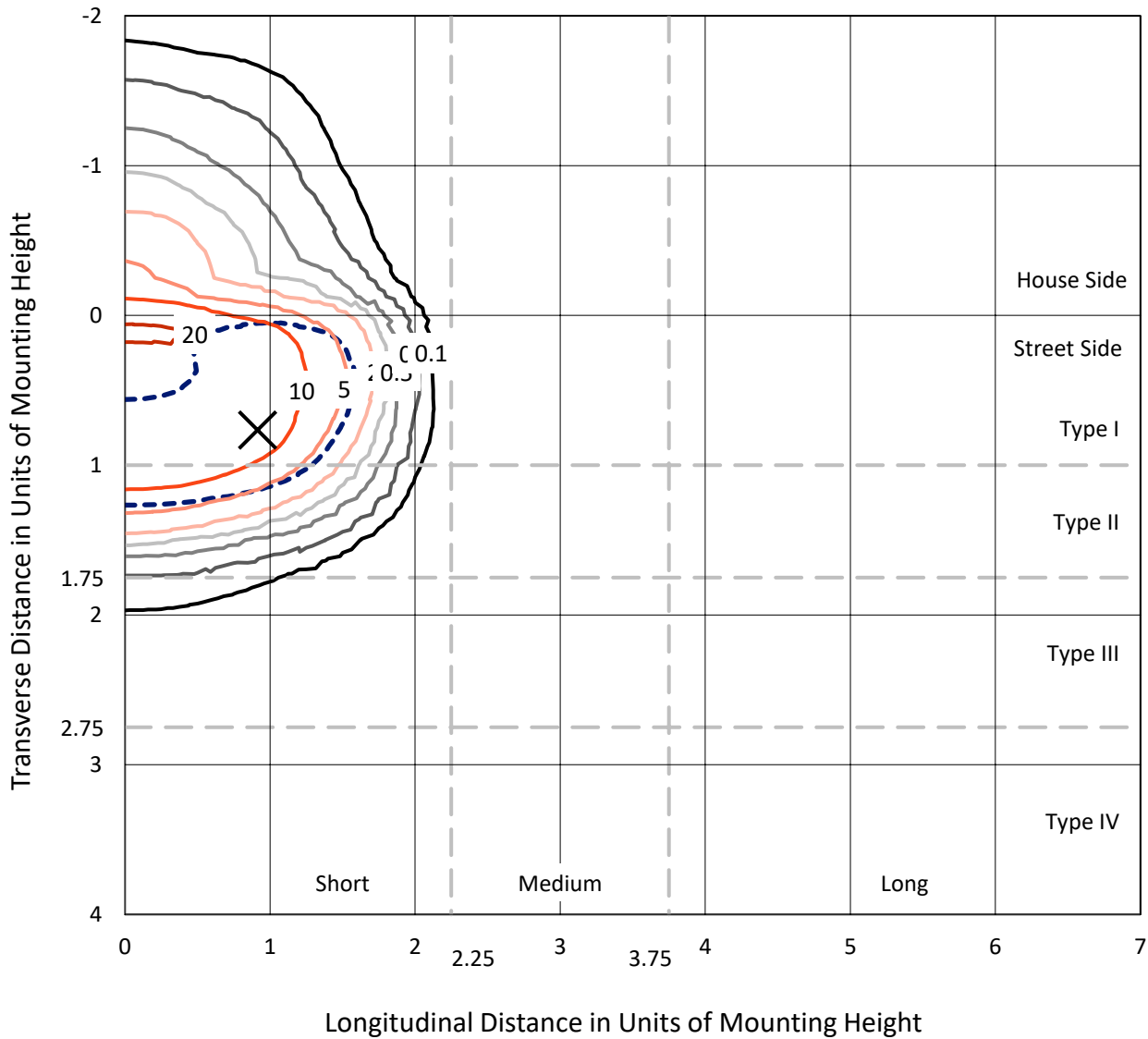
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630872
 CATALOG NUMBER: GWS-SA1E-750-U-AFL-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

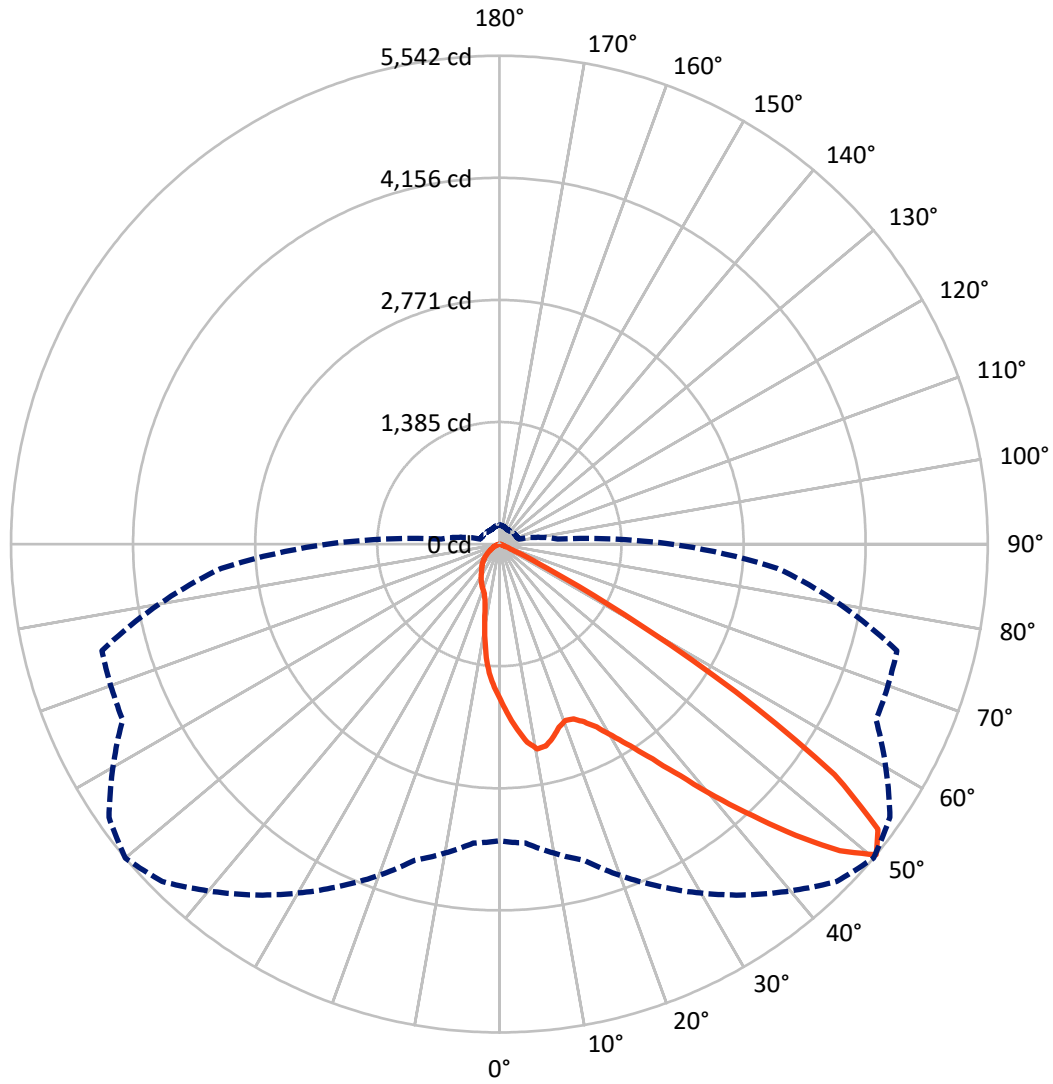
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

REPORT NUMBER: P630872
CATALOG NUMBER: GWS-SA1E-750-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GWS-SA1E-750-U-AFL-W-GRSBK

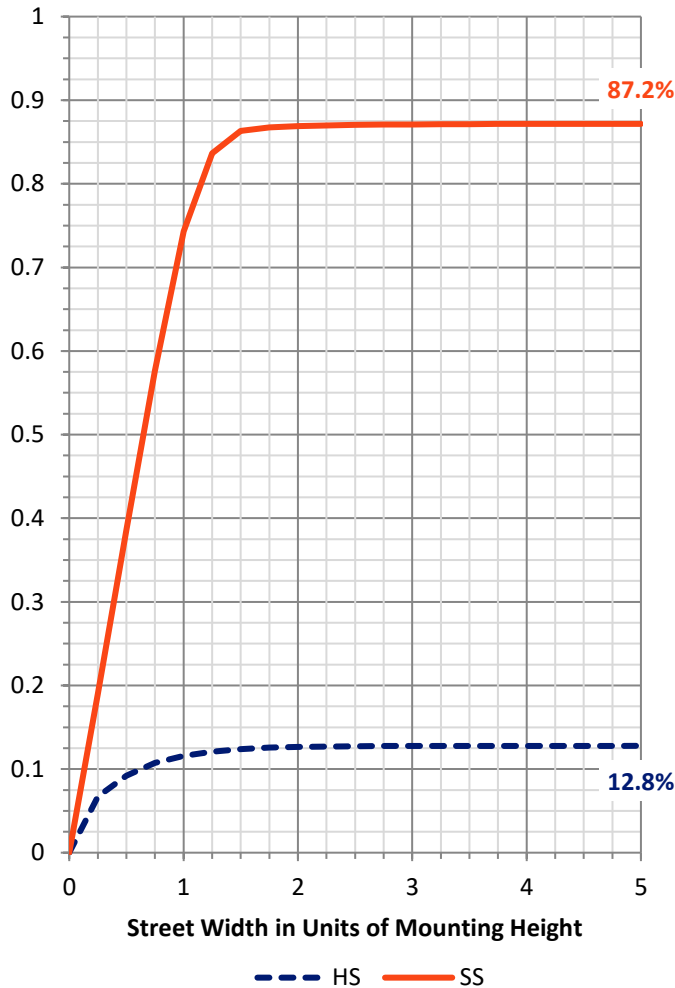
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.1	0.0	750.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5087.7	0.0	5087.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5837.8	0.0	5837.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	2.8
10°-20°	423.3	7.3
20°-30°	698.6	12.0
30°-40°	1152.8	19.7
40°-50°	1824.1	31.2
50°-60°	1381.0	23.7
60°-70°	172.8	3.0
70°-80°	19.6	0.3
80°-90°	1.5	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°	5837.8	100.0
0°-180°	5837.8	100.0

Coefficient of Utilization



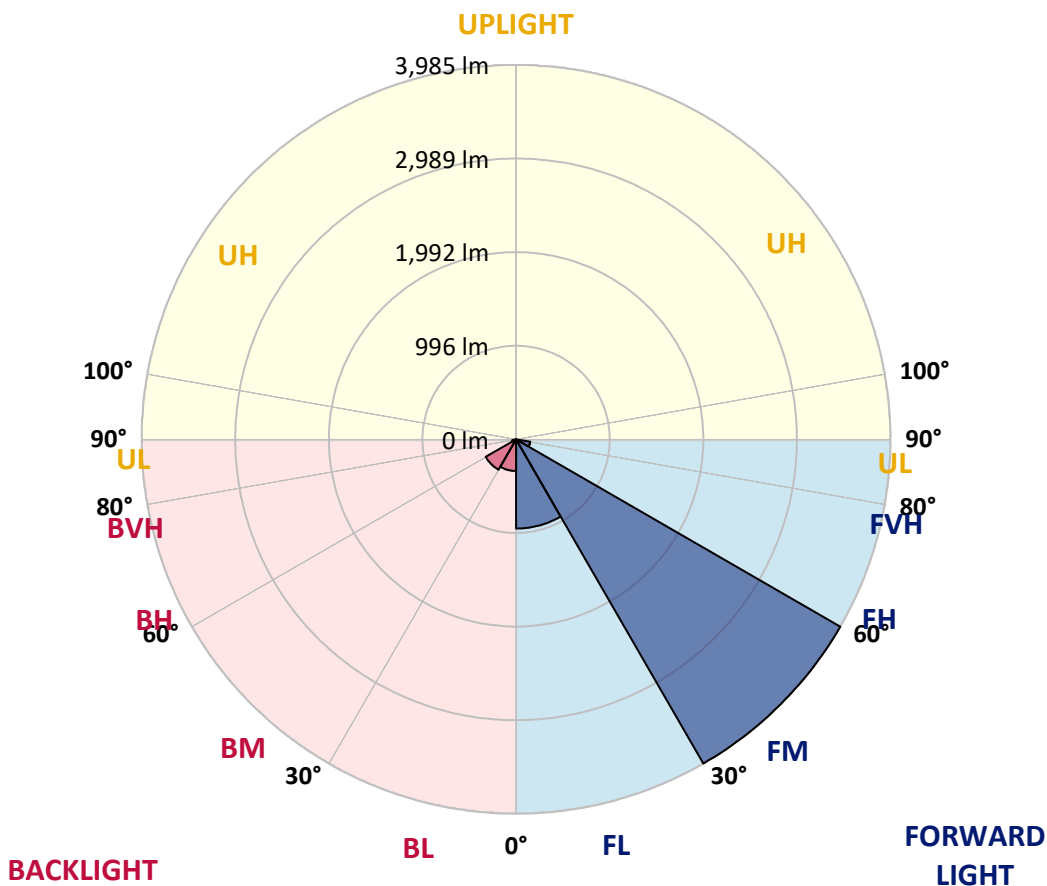
REPORT NUMBER: P630872

CATALOG NUMBER: GWS-SA1E-750-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°)	949.3	16.3			
FM (30°-60°)	3984.9	68.3			
FH (60°-80°)	152.8	2.6			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	336.7	5.8	B1/500		
BM (30°-60°)	373.0	6.4	B1/1000		
BH (60°-80°)	39.6	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: P630872

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	2015.3	2031.4	2027.0	2005.9	1983.1	1967.0	1942.0	1934.2	1877.5	1838.1	1796.4
5°	2258.7	2263.7	2258.1	2232.6	2192.6	2154.2	2113.1	2089.2	1994.2	1908.6	1821.4
7.5°	2317.0	2310.9	2321.5	2334.3	2328.7	2312.0	2268.7	2242.6	2129.2	1989.8	1857.5
10°	2134.8	2120.9	2160.4	2226.5	2295.9	2374.3	2363.2	2365.4	2260.9	2092.0	1904.8
12.5°	1893.1	1887.5	1917.0	1993.7	2129.8	2307.6	2350.4	2422.1	2381.5	2202.6	1958.7
15°	1787.0	1789.7	1807.5	1855.9	1953.7	2174.8	2277.6	2407.1	2489.3	2309.8	2018.1
17.5°	1803.1	1813.1	1812.5	1828.6	1888.1	2065.3	2185.4	2359.8	2572.6	2433.2	2086.5
20°	1912.5	1922.5	1907.5	1895.3	1915.3	2037.6	2137.0	2312.0	2628.8	2557.6	2158.7
22.5°	2076.4	2088.1	2052.6	2017.6	2004.8	2083.1	2155.4	2292.6	2671.5	2671.5	2223.1
25°	2274.8	2290.9	2235.9	2173.7	2138.1	2179.2	2233.7	2336.5	2715.4	2773.8	2267.0
27.5°	2496.5	2497.1	2449.8	2379.8	2313.2	2318.2	2350.9	2435.4	2763.8	2883.8	2301.5
30°	2746.0	2747.7	2684.9	2601.0	2517.1	2494.3	2522.1	2586.0	2864.4	3022.2	2349.3
32.5°	3068.3	3076.1	2986.0	2862.7	2753.8	2711.0	2727.1	2794.3	3024.4	3195.5	2420.9
35°	3503.9	3512.2	3379.4	3216.6	3043.3	2978.8	2994.9	3062.7	3256.1	3441.7	2535.4
37.5°	3934.0	3945.1	3810.6	3658.9	3421.1	3314.4	3331.1	3395.6	3603.9	3781.7	2718.8
40°	4231.2	4246.2	4204.6	4102.3	3881.7	3741.7	3761.7	3785.1	3986.8	4188.5	2956.6
42.5°	4387.9	4409.1	4426.8	4479.1	4362.9	4245.7	4211.8	4213.5	4376.3	4603.0	3203.9
45°	4397.4	4417.9	4509.1	4710.8	4799.1	4774.7	4713.0	4671.3	4673.5	4879.1	3358.3
47.5°	4091.8	4130.1	4300.7	4695.8	5028.0	5230.9	5199.7	5100.8	4798.6	4897.5	3341.7
50°	3367.8	3405.6	3715.6	4284.0	4861.3	5413.1	5541.5	5408.7	4716.9	4669.1	3170.0
52.5°	2446.0	2449.8	2651.0	3315.0	4185.7	5076.9	5379.2	5366.4	4592.4	4392.4	2935.5
55°	1161.9	1148.0	1374.1	1870.9	2894.9	4106.2	4615.8	4760.2	4415.7	4192.3	2753.8
57.5°	338.4	345.1	445.6	730.1	1448.0	2624.3	3161.1	3430.0	3624.5	3446.7	2135.9
60°	151.7	152.2	169.5	222.3	482.3	1220.8	1634.2	1967.0	2167.0	2008.1	1059.6
62.5°	110.0	110.6	117.2	125.6	163.9	413.4	612.9	816.8	831.8	544.5	268.4
65°	91.7	91.7	92.8	92.8	98.3	147.8	186.1	240.0	202.3	150.0	105.0
67.5°	73.9	74.5	75.6	75.6	73.9	73.9	80.0	87.8	93.9	116.1	96.7
70°	57.8	57.2	57.2	57.8	56.1	47.8	51.7	58.9	64.5	90.6	83.9
72.5°	45.0	45.6	45.0	42.8	38.9	28.3	30.6	38.3	41.1	56.7	56.7
75°	33.9	34.5	32.2	24.4	16.1	8.9	11.7	18.9	23.9	27.8	20.6
77.5°	4.4	4.4	3.3	3.3	2.8	3.3	3.3	4.4	6.7	6.7	5.0
80°	0.6	0.6	0.6	1.1	1.7	2.2	2.2	2.2	2.2	2.8	2.8
82.5°	0.6	0.6	0.6	0.6	1.7	1.7	2.2	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.6	1.1	1.7	1.7	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.6	1.1	1.7	1.7	1.7	2.2	2.2	2.2
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°	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6	1768.6
2.5°	1771.4	1739.2	1700.3	1673.6	1635.8	1610.8	1575.3	1551.4	1530.8	1514.7	1523.6
5°	1772.0	1720.8	1641.4	1573.6	1499.7	1431.9	1359.1	1301.9	1250.2	1226.9	1239.6
7.5°	1783.1	1709.7	1588.0	1467.5	1325.8	1185.7	1054.6	947.9	895.1	870.1	877.9
10°	1804.7	1704.7	1528.6	1328.5	1098.5	907.4	780.1	707.9	678.4	662.9	665.7
12.5°	1824.7	1701.4	1451.3	1145.7	866.8	704.0	637.9	627.9	634.0	634.5	634.0
15°	1852.0	1695.3	1355.8	957.9	693.4	608.4	610.1	624.5	639.0	643.4	642.3
17.5°	1880.9	1685.8	1232.4	777.9	588.4	580.7	600.1	619.5	634.0	636.2	636.8
20°	1910.9	1666.4	1091.8	635.1	539.5	559.5	581.2	595.7	606.2	609.5	610.7
22.5°	1924.8	1625.3	929.6	532.9	506.7	533.4	549.5	568.4	571.8	559.5	561.8
25°	1917.5	1555.8	771.2	464.0	474.0	500.6	524.5	515.1	501.2	492.3	495.1
27.5°	1894.8	1463.6	616.2	413.4	439.0	472.9	475.6	465.1	462.9	455.6	457.9
30°	1870.3	1357.4	495.6	372.8	403.4	439.0	430.6	434.5	435.1	426.7	429.5
32.5°	1855.3	1246.3	394.5	345.6	380.6	387.3	404.0	411.7	412.3	392.8	396.2
35°	1860.3	1136.9	333.9	323.4	359.5	357.8	381.2	385.6	353.4	326.7	329.5
37.5°	1900.9	1035.7	299.5	306.2	322.8	335.6	353.4	323.9	316.7	304.5	306.2
40°	1976.4	949.6	278.9	295.6	297.8	318.4	291.2	295.0	295.6	287.8	289.5
42.5°	2064.8	877.9	266.7	289.5	283.9	287.3	260.0	267.8	276.2	272.8	273.4
45°	2109.2	807.9	256.2	268.4	270.0	238.4	232.3	240.6	251.2	252.8	253.4
47.5°	2069.8	741.2	245.0	237.8	248.9	217.3	210.0	212.8	225.0	231.7	232.8
50°	1949.2	664.6	228.4	210.6	204.5	195.0	188.4	188.9	202.8	214.5	216.7
52.5°	1779.7	584.5	201.1	178.4	164.5	171.7	173.4	170.0	182.8	194.5	196.7
55°	1615.3	484.5	159.5	145.0	132.2	147.8	152.2	147.8	151.7	159.5	160.0
57.5°	1137.4	273.9	122.2	120.0	109.5	126.7	133.9	127.2	120.6	125.6	126.7
60°	527.3	143.4	93.9	93.9	91.1	108.9	121.1	111.7	98.9	101.1	102.8
62.5°	165.0	90.6	68.9	65.0	74.5	92.8	102.8	93.3	78.3	78.3	80.6
65°	93.3	77.8	54.5	50.0	60.6	74.5	80.6	70.6	57.2	56.1	56.1
67.5°	86.7	73.9	48.3	40.6	42.8	47.8	50.0	43.3	39.5	38.9	39.5
70°	71.7	61.7	38.9	27.8	26.1	25.6	26.7	25.0	23.9	24.4	26.1
72.5°	44.5	37.2	24.4	16.7	14.4	13.9	13.9	13.9	13.3	13.3	13.3
75°	16.1	13.9	11.1	8.3	7.2	6.7	6.7	7.2	6.7	6.1	5.6
77.5°	5.0	4.4	4.4	4.4	3.9	3.3	2.8	2.8	2.2	1.7	1.7
80°	2.8	2.8	2.8	2.8	2.2	2.2	1.7	1.1	0.6	0.6	0.0
82.5°	2.8	2.8	2.8	2.2	2.2	2.2	1.7	1.1	0.6	0.0	0.0
85°	2.2	2.2	2.2	2.2	2.2	2.2	1.7	1.1	0.6	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.7	1.1	0.6	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)