

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: P632525

Luminaire Tested: GWS-SA2C-830-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7487 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

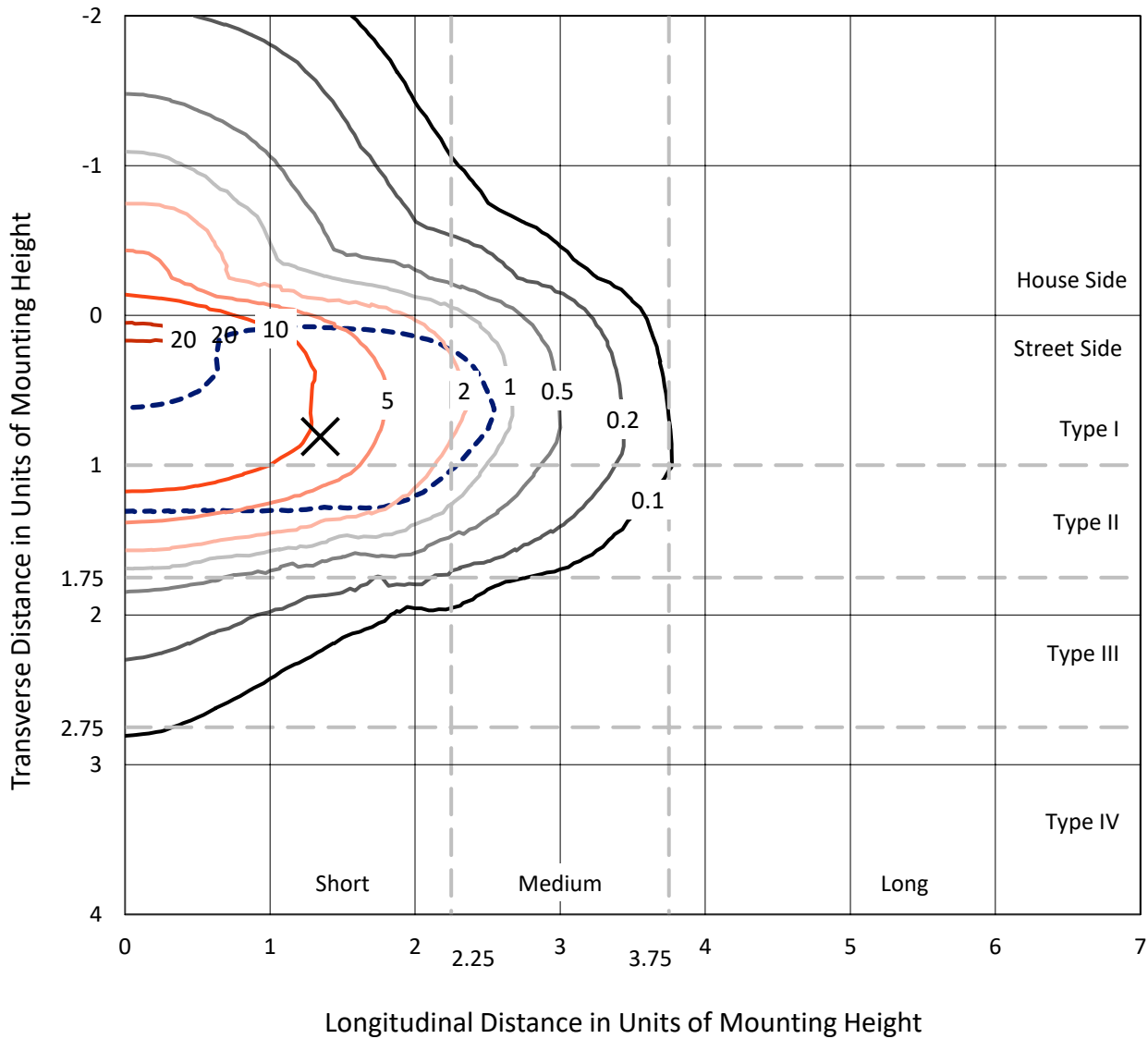


REPORT NUMBER: P632525

CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

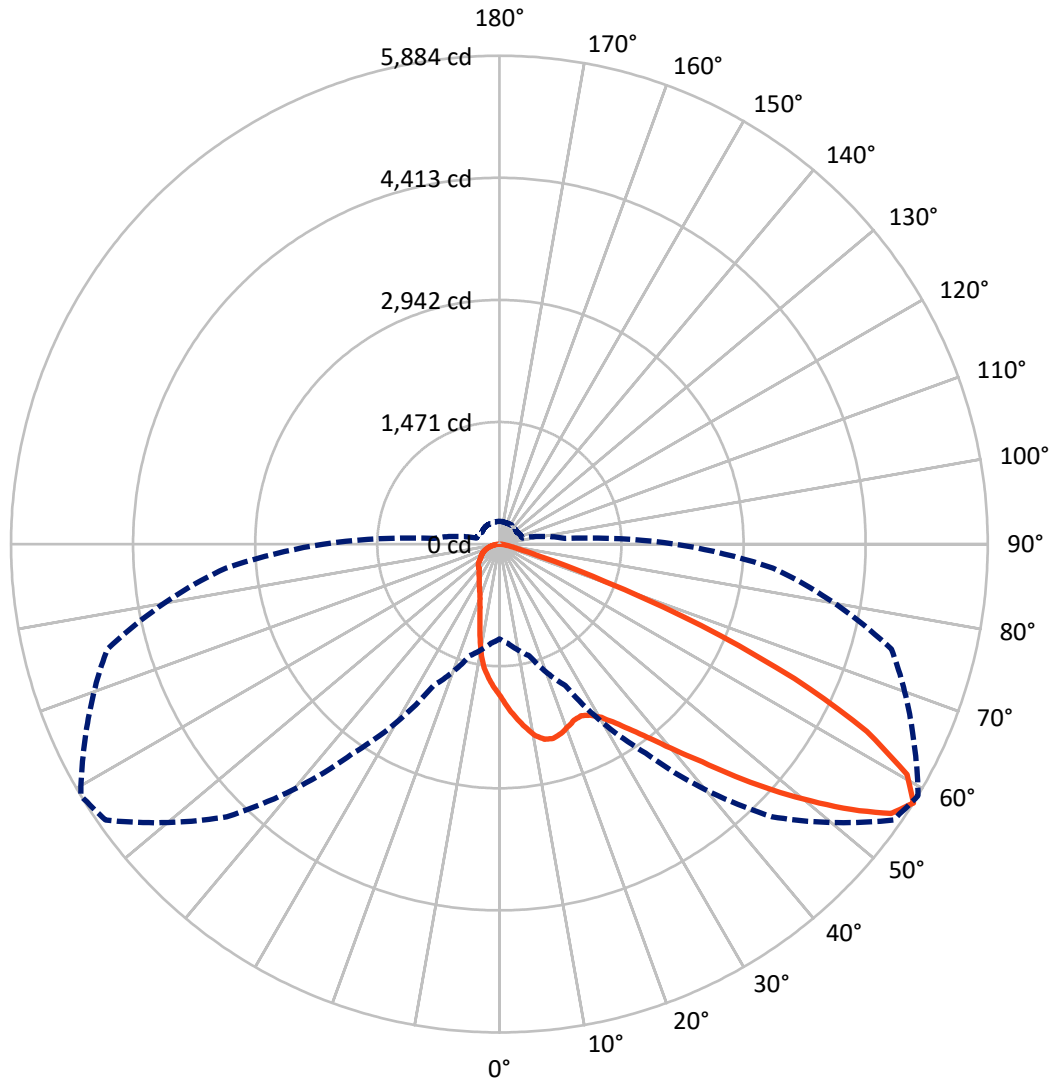
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc
 Type II - Short - N/A

REPORT NUMBER: P632525
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P632525

CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

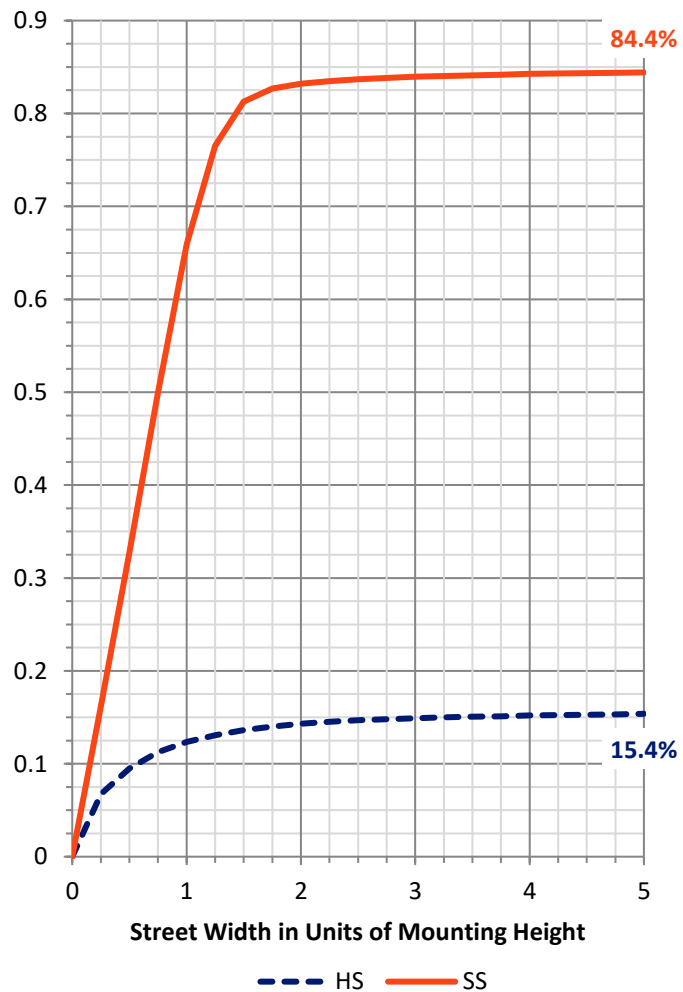
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1161.9	0.0	1161.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6325.1	0.0	6325.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7487.0	0.0	7487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	2.3
10°-20°	432.4	5.8
20°-30°	701.0	9.4
30°-40°	1127.6	15.1
40°-50°	1751.1	23.4
50°-60°	1886.2	25.2
60°-70°	1094.7	14.6
70°-80°	285.8	3.8
80°-90°	37.6	0.5
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°	7487.0	100.0
0°-180°	7487.0	100.0

Coefficient of Utilization



REPORT NUMBER: P632525

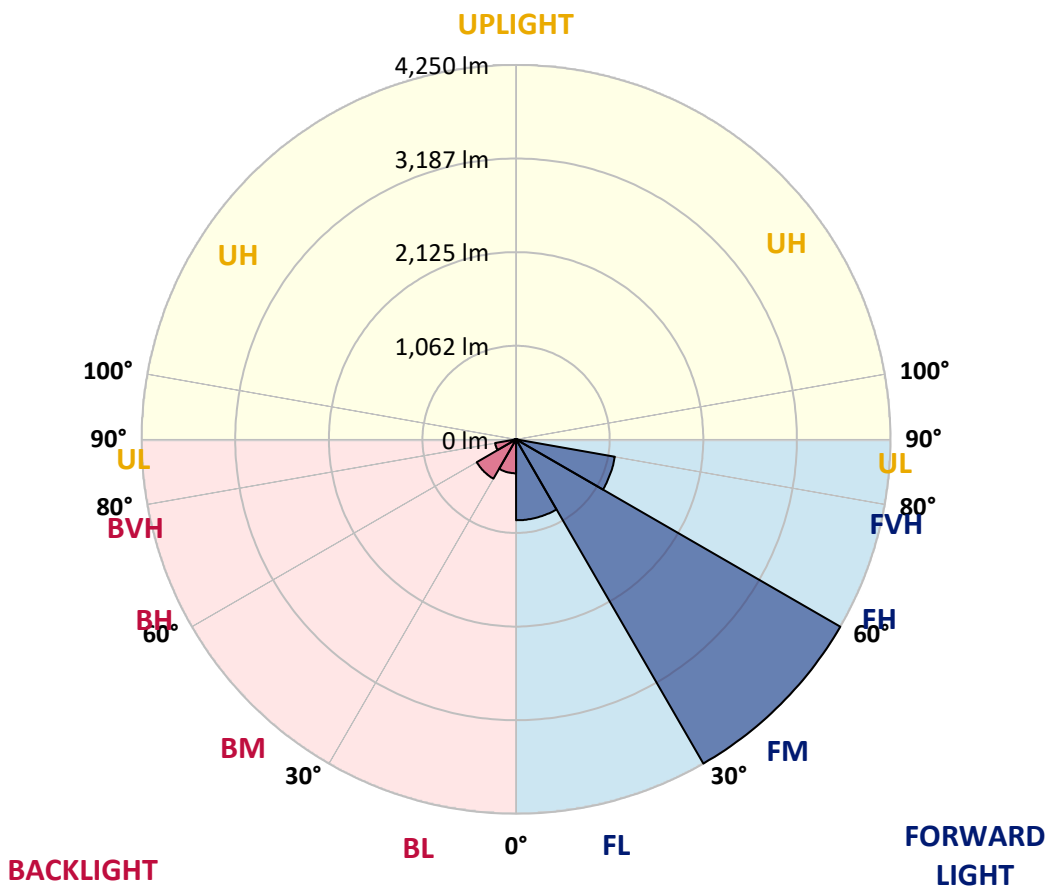
CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.6	12.3			
FM (30°-60°)	4249.7	56.8			
FH (60°-80°)	1138.7	15.2			G1/1800
FVH (80°-90°)	18.0	0.2			G1/100
BL (0°-30°)	385.5	5.1	B1/500		
BM (30°-60°)	515.2	6.9	B1/1000		
BH (60°-80°)	241.7	3.2	B1/500		G1/500
BVH (80°-90°)	19.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P632525
 CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9
2.5°	2084.6	2067.2	2079.3	2057.7	2048.7	2025.0	1994.4	1973.9	1942.3	1901.2	1865.3
5°	2291.7	2279.6	2282.2	2259.0	2238.5	2199.0	2136.2	2101.4	2047.7	1964.9	1888.0
7.5°	2285.4	2299.6	2307.5	2327.6	2333.4	2329.7	2273.3	2224.8	2165.7	2041.4	1925.4
10°	2048.7	2075.6	2099.9	2168.4	2251.7	2357.1	2370.3	2341.3	2281.7	2138.9	1970.2
12.5°	1791.0	1811.6	1833.2	1915.4	2042.9	2253.8	2396.6	2414.5	2390.8	2235.3	2020.8
15°	1664.5	1674.0	1694.5	1748.8	1850.6	2084.6	2350.8	2429.3	2472.0	2337.6	2077.7
17.5°	1659.2	1663.4	1673.5	1702.5	1773.1	1953.9	2268.0	2399.8	2535.8	2445.6	2144.1
20°	1768.3	1757.3	1750.9	1750.4	1785.2	1910.1	2187.9	2352.3	2565.8	2556.3	2215.3
22.5°	1919.6	1923.3	1909.6	1875.9	1871.6	1941.2	2147.8	2304.4	2574.8	2654.3	2281.2
25°	2134.1	2152.6	2112.0	2047.7	2016.1	2031.3	2172.6	2289.6	2573.7	2736.0	2322.3
27.5°	2384.5	2398.7	2357.6	2273.3	2207.9	2171.0	2246.4	2333.4	2582.7	2806.7	2347.1
30°	2669.6	2674.4	2618.0	2529.4	2434.0	2355.0	2369.2	2423.5	2628.5	2899.4	2376.1
32.5°	3018.0	3038.1	2952.7	2812.5	2679.1	2577.9	2534.2	2569.0	2727.6	3009.1	2420.9
35°	3460.2	3467.1	3358.5	3157.7	2969.0	2828.8	2737.1	2755.5	2878.4	3162.4	2488.3
37.5°	3877.2	3884.0	3768.6	3582.0	3312.1	3120.3	2987.5	2979.0	3071.3	3379.1	2598.5
40°	4141.8	4161.3	4109.6	3992.6	3734.8	3476.1	3295.8	3266.8	3324.3	3644.2	2751.9
42.5°	4284.1	4292.5	4291.4	4306.7	4153.3	3896.1	3643.7	3585.7	3624.2	3930.4	2906.8
45°	4285.1	4306.2	4362.6	4509.6	4516.5	4356.3	4083.2	3992.6	3957.3	4218.7	3068.6
47.5°	4093.3	4115.9	4270.9	4560.2	4773.7	4810.1	4609.8	4428.0	4279.3	4467.0	3201.5
50°	3512.4	3569.3	3864.5	4376.3	4824.3	5173.8	5112.1	4865.4	4565.5	4658.8	3284.7
52.5°	3008.0	3005.9	3187.7	3856.6	4613.0	5334.0	5598.1	5315.5	4848.6	4780.6	3305.8
55°	2202.6	2214.8	2400.8	2949.5	4049.0	5179.0	5865.3	5729.8	5173.2	4845.4	3297.4
57.5°	1142.2	1202.3	1393.1	1882.2	3076.5	4645.6	5794.1	5884.3	5503.2	4891.3	3308.4
60°	577.1	565.6	634.1	898.7	1782.6	3628.4	5355.6	5642.9	5562.7	4927.1	3315.3
62.5°	385.3	382.1	363.2	416.4	728.4	2148.9	4565.5	4968.2	5149.0	4842.8	3227.8
65°	333.6	327.3	292.5	290.4	353.7	891.3	3346.4	3905.6	4255.6	4468.0	3018.6
67.5°	300.4	290.9	255.6	238.2	254.0	391.6	1885.9	2619.6	3142.4	3778.6	2560.0
70°	268.3	263.5	228.2	202.9	201.3	238.8	694.7	1351.9	1922.8	2577.9	1871.6
72.5°	240.3	231.9	201.9	177.6	165.5	169.2	301.5	520.7	995.1	1608.1	1119.5
75°	208.2	201.9	175.5	151.3	136.5	123.9	183.9	240.9	453.8	764.3	528.7
77.5°	160.8	156.5	138.6	120.2	111.7	92.2	111.7	151.8	209.8	322.0	275.1
80°	93.3	95.9	103.3	93.8	82.2	65.9	72.7	87.5	126.0	174.5	156.0
82.5°	46.9	50.1	66.9	54.3	49.0	38.5	43.2	51.7	65.9	96.5	61.1
85°	3.7	3.7	12.1	13.7	16.9	13.7	17.4	21.1	30.0	38.5	20.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.6	4.7	9.0	5.8
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: P632525
 CATALOG NUMBER: GWS-SA2C-830-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9	1837.9
2.5°	1841.1	1814.2	1782.0	1755.7	1715.1	1693.5	1666.1	1632.3	1618.6	1612.3	1608.6
5°	1844.8	1797.3	1728.8	1665.6	1595.5	1540.1	1478.4	1414.1	1377.2	1368.3	1362.0
7.5°	1858.5	1792.1	1682.9	1578.6	1448.4	1327.7	1210.2	1093.7	1034.1	1011.5	1009.3
10°	1877.4	1789.9	1636.6	1463.2	1243.4	1052.6	915.0	823.8	785.3	772.7	768.5
12.5°	1901.2	1788.4	1575.4	1302.9	1006.7	826.5	747.9	733.2	738.4	737.4	737.4
15°	1931.2	1790.5	1501.6	1121.6	814.3	717.3	718.9	736.3	752.7	755.3	755.3
17.5°	1963.9	1788.4	1394.6	939.8	698.9	691.5	715.8	740.0	754.8	756.9	756.9
20°	1999.2	1778.3	1259.7	768.5	648.3	675.2	701.5	720.5	729.5	731.6	731.6
22.5°	2020.3	1749.9	1113.2	650.4	616.2	649.4	666.7	686.3	687.3	670.4	669.9
25°	2017.1	1696.7	946.1	574.5	581.9	610.9	633.0	619.3	602.4	593.0	591.4
27.5°	1997.1	1616.5	775.9	517.1	541.3	574.0	567.1	555.5	551.3	540.8	539.7
30°	1971.8	1518.0	623.0	472.3	499.1	529.2	518.6	517.6	513.4	501.8	501.8
32.5°	1947.5	1416.2	507.6	439.1	472.3	474.4	489.1	490.2	488.1	468.0	465.9
35°	1940.7	1314.5	429.6	412.7	445.9	444.9	465.9	465.4	429.0	401.1	400.6
37.5°	1961.2	1211.2	383.2	391.1	409.5	423.2	440.1	409.5	397.4	380.5	379.5
40°	2005.0	1115.8	359.5	378.4	386.3	406.4	380.0	382.1	379.0	366.3	364.7
42.5°	2063.0	1034.6	346.3	374.2	373.2	378.4	349.5	357.9	362.6	353.1	351.6
45°	2118.8	964.0	339.4	358.4	363.7	333.1	327.3	335.2	342.6	338.9	337.3
47.5°	2160.0	902.9	335.7	336.8	351.6	317.8	308.3	312.0	321.0	322.6	322.0
50°	2172.6	850.7	331.5	318.9	315.7	302.5	295.2	294.1	304.6	312.0	313.1
52.5°	2148.4	804.3	320.5	303.1	287.8	289.9	287.3	282.0	292.5	302.5	303.6
55°	2112.5	778.0	303.1	287.8	269.9	278.3	279.3	274.6	281.5	288.3	288.3
57.5°	2115.1	793.2	286.2	273.6	254.0	265.1	270.9	268.8	268.8	274.1	274.6
60°	2132.5	815.4	275.1	255.6	238.2	249.8	263.0	260.9	256.2	263.0	263.0
62.5°	2082.5	785.9	267.8	238.2	221.4	235.1	250.9	249.8	244.6	255.6	256.7
65°	1934.9	706.8	259.3	216.6	204.5	220.3	234.0	237.7	233.0	247.7	250.4
67.5°	1621.8	594.5	243.0	196.1	187.6	202.4	215.6	220.8	217.2	234.5	236.7
70°	1209.1	481.2	217.2	173.4	167.1	180.3	192.4	194.5	195.0	215.6	217.7
72.5°	771.1	374.2	182.9	148.1	143.4	153.4	162.3	170.8	174.5	194.0	193.4
75°	430.1	278.3	147.1	125.4	117.0	124.9	135.5	145.5	156.0	184.5	187.6
77.5°	247.7	195.5	116.5	100.7	90.7	99.1	108.1	122.3	153.9	178.7	175.5
80°	139.7	127.0	88.0	73.8	67.5	73.8	80.6	107.5	121.2	131.8	133.3
82.5°	65.4	71.2	60.1	45.3	45.3	49.5	55.9	83.3	91.7	74.8	65.4
85°	23.7	32.2	29.5	23.2	20.6	20.0	34.8	47.4	29.5	26.4	22.7
87.5°	6.3	9.0	8.4	5.8	3.2	2.6	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)