

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: P639981

Luminaire Tested: GWS-SA5C-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11681.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

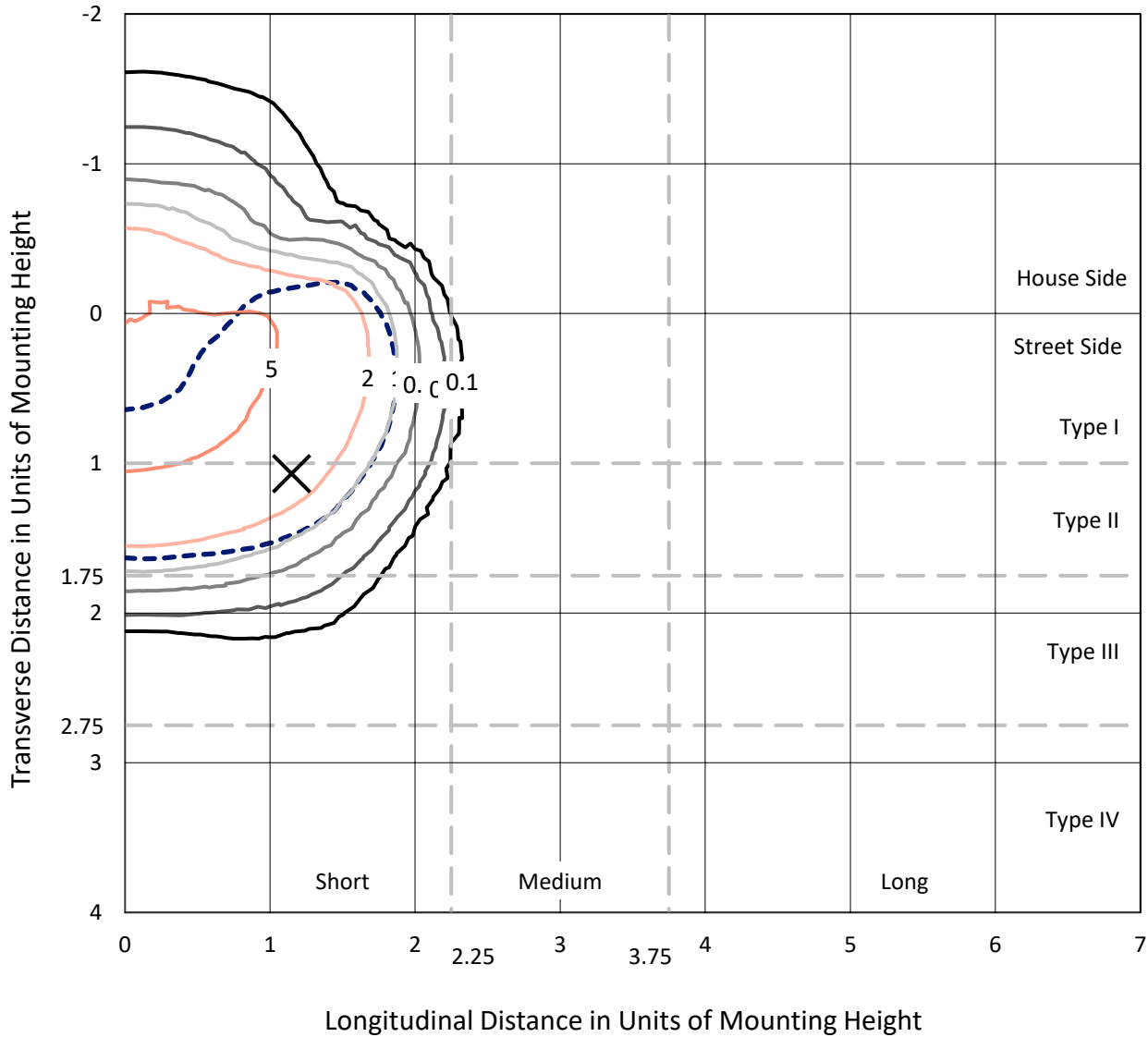
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639981
 CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

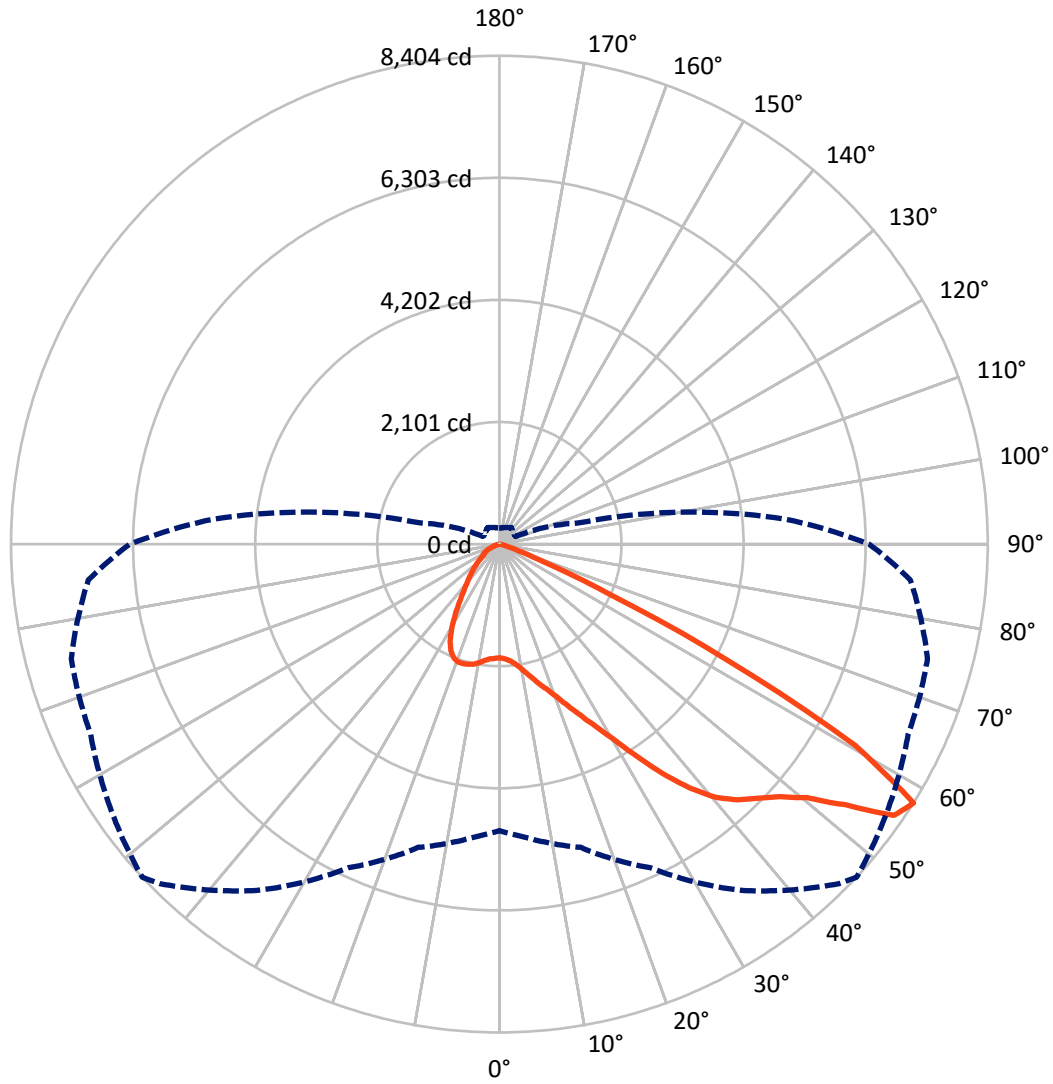
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P639981
CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639981
 CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

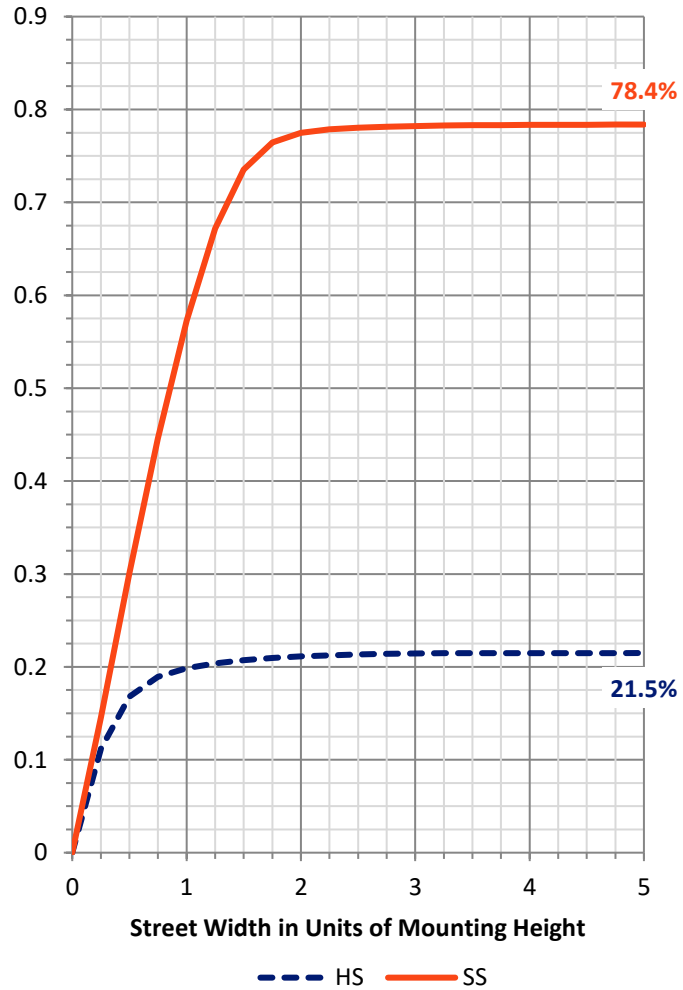
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.2	0.0	2534.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9146.9	0.0	9146.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	11681.1	0.0	11681.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.7
10°-20°	656.4	5.6
20°-30°	1218.8	10.4
30°-40°	1951.1	16.7
40°-50°	2852.1	24.4
50°-60°	3520.0	30.1
60°-70°	1176.2	10.1
70°-80°	109.6	0.9
80°-90°	2.3	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°	11681.1	100.0
0°-180°	11681.1	100.0

Coefficient of Utilization



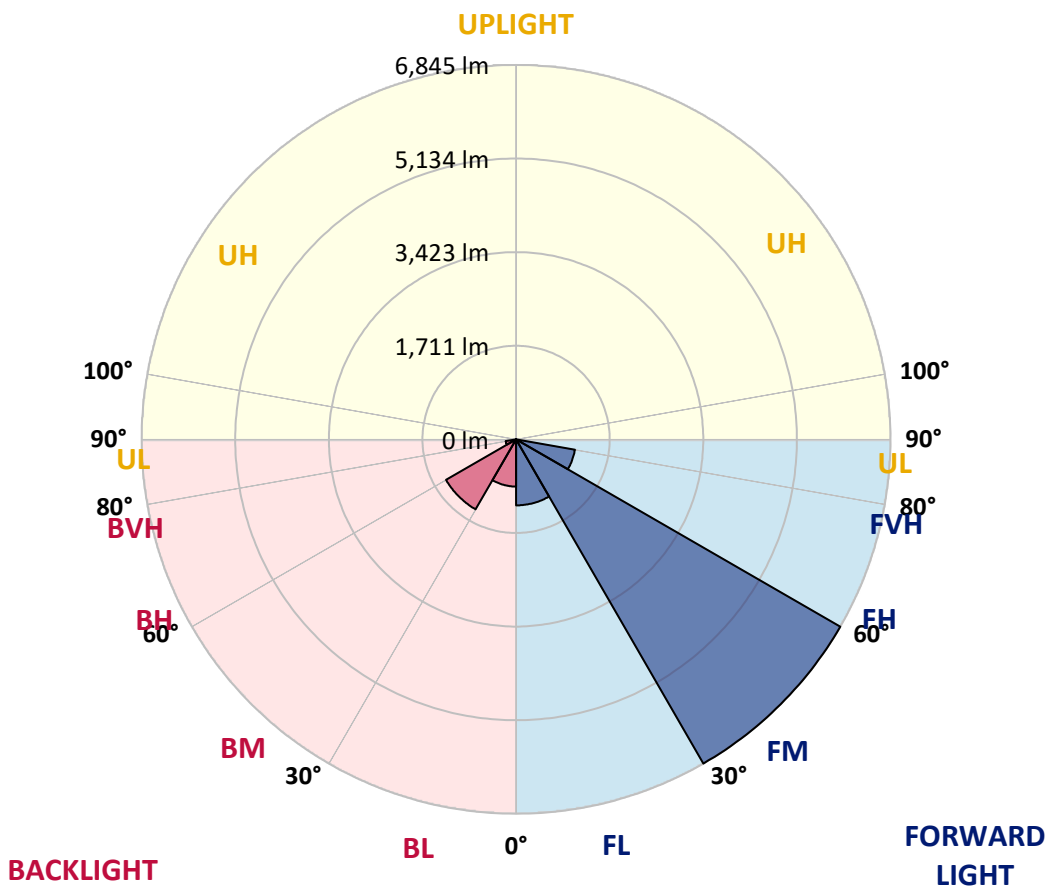
REPORT NUMBER: P639981

CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.2	10.3			
FM (30°-60°)	6845.0	58.6			
FH (60°-80°)	1093.1	9.4			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	862.6	7.4	B2/1000		
BM (30°-60°)	1478.2	12.7	B2/2500		
BH (60°-80°)	192.7	1.6	B1/500		G1/500
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: B2-U0-G1
 Type II Short





REPORT NUMBER: P639981

CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4
2.5°	1975.8	1974.4	1973.1	1981.2	1978.5	1977.1	1979.8	1979.8	1979.8	1971.7	1955.4
5°	2023.2	2023.2	2021.9	2030.0	2023.2	2019.2	2020.5	2020.5	2015.1	2000.2	1979.8
7.5°	2097.8	2095.1	2092.4	2100.5	2093.7	2092.4	2095.1	2087.0	2077.5	2053.1	2024.6
10°	2204.9	2204.9	2200.9	2209.0	2203.6	2200.9	2200.9	2195.5	2177.8	2139.9	2097.8
12.5°	2352.8	2346.0	2336.5	2329.7	2327.0	2325.6	2327.0	2318.9	2299.9	2251.0	2192.7
15°	2514.1	2508.7	2493.8	2482.9	2468.0	2465.3	2473.4	2466.7	2447.7	2381.2	2298.5
17.5°	2717.5	2724.3	2686.3	2663.3	2619.9	2617.2	2619.9	2630.7	2617.2	2531.8	2411.1
20°	2891.1	2896.5	2868.1	2851.8	2812.5	2794.8	2800.2	2817.9	2803.0	2702.6	2534.5
22.5°	3076.9	3083.7	3053.8	3019.9	3002.3	3002.3	3022.6	3047.1	3026.7	2895.2	2675.5
25°	3299.3	3304.7	3280.3	3235.5	3204.4	3243.7	3273.5	3338.6	3304.7	3125.7	2842.3
27.5°	3554.2	3555.6	3520.3	3474.2	3457.9	3531.2	3561.0	3661.3	3647.8	3384.7	3018.6
30°	3826.8	3828.1	3820.0	3788.8	3773.9	3870.2	3910.9	4056.0	4046.5	3706.1	3258.6
32.5°	4110.2	4110.2	4125.1	4122.4	4140.0	4297.3	4362.4	4527.9	4518.4	4099.3	3556.9
35°	4395.0	4396.3	4422.1	4487.2	4560.4	4769.2	4854.7	5055.4	5033.7	4569.9	3938.0
37.5°	4719.1	4705.5	4740.8	4838.4	5001.1	5242.5	5323.9	5515.1	5490.7	5051.3	4435.6
40°	5109.6	5085.2	5085.2	5199.1	5383.5	5661.5	5730.7	5825.6	5742.9	5440.5	4923.8
42.5°	5540.8	5517.8	5487.9	5588.3	5742.9	5959.9	6016.8	5991.0	5923.2	5808.0	5479.8
45°	5977.5	5942.2	5962.6	6023.6	6113.1	6216.1	6237.8	6118.5	6087.3	6119.9	5939.5
47.5°	6309.7	6285.3	6335.5	6420.9	6494.1	6509.1	6494.1	6328.7	6326.0	6441.3	6258.2
50°	6420.9	6423.6	6561.9	6749.1	6867.1	6879.3	6858.9	6669.1	6643.3	6677.2	6430.4
52.5°	6431.8	6442.6	6644.7	7001.3	7322.7	7469.1	7452.9	7248.1	6995.9	6959.3	6690.8
55°	6170.0	6233.8	6515.8	7036.6	7720.0	8187.8	8242.1	7850.2	7475.9	7444.7	7250.8
57.5°	4932.0	5062.1	5402.5	6144.3	7276.6	8262.4	8403.5	8121.4	7759.3	7626.4	7100.3
60°	2948.1	3109.4	3436.2	4346.2	5538.1	6791.1	7033.8	7073.2	6906.4	6522.6	5447.3
62.5°	1265.2	1251.6	1654.4	2351.4	3293.9	4316.3	4426.2	4597.0	4742.1	4340.7	3306.1
65°	433.9	471.9	656.3	1060.4	1649.0	2004.2	2101.9	2255.1	2461.2	2031.4	1211.0
67.5°	268.5	284.8	378.3	626.5	889.6	876.0	832.6	808.2	786.5	538.4	332.2
70°	195.3	208.8	265.8	431.2	598.0	420.4	364.8	295.6	328.2	302.4	236.0
72.5°	131.5	142.4	183.1	261.7	306.5	204.8	189.8	215.6	260.4	248.2	192.6
75°	78.7	85.4	104.4	127.5	124.8	105.8	107.1	151.9	199.3	185.8	137.0
77.5°	54.2	57.0	69.2	82.7	61.0	32.5	29.8	42.0	67.8	67.8	46.1
80°	13.6	17.6	17.6	10.8	9.5	8.1	8.1	12.2	19.0	13.6	6.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
85°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
87.5°	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7
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: P639981

CATALOG NUMBER: GWS-SA5C-830-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4	1955.4
2.5°	1964.9	1948.6	1959.5	1956.8	1964.9	1967.6	1955.4	1952.7	1954.1	1937.8	1932.4
5°	1983.9	1964.9	1970.3	1964.9	1974.4	1982.5	1978.5	1983.9	1990.7	1978.5	1973.1
7.5°	2024.6	2005.6	2004.2	1996.1	2009.7	2015.1	2013.7	2028.7	2042.2	2034.1	2025.9
10°	2095.1	2069.3	2066.6	2059.8	2063.9	2068.0	2053.1	2055.8	2068.0	2058.5	2054.4
12.5°	2181.9	2150.7	2143.9	2127.6	2127.6	2107.3	2074.8	2068.0	2077.5	2070.7	2063.9
15°	2275.5	2233.4	2222.6	2194.1	2167.0	2129.0	2095.1	2087.0	2093.7	2085.6	2080.2
17.5°	2379.9	2332.4	2297.2	2247.0	2187.3	2142.6	2104.6	2087.0	2076.1	2059.8	2058.5
20°	2482.9	2420.6	2360.9	2280.9	2202.2	2134.4	2072.0	2025.9	1986.6	1962.2	1952.7
22.5°	2602.3	2510.1	2413.8	2301.2	2188.7	2085.6	1975.8	1897.1	1829.3	1806.3	1795.4
25°	2729.7	2610.4	2466.7	2320.2	2142.6	1977.1	1828.0	1711.3	1621.8	1592.0	1579.8
27.5°	2870.8	2706.7	2520.9	2316.1	2047.6	1822.5	1624.6	1479.5	1391.3	1364.2	1373.7
30°	3049.8	2831.4	2588.7	2274.1	1905.3	1605.6	1373.7	1251.6	1185.2	1159.4	1160.8
32.5°	3288.4	3010.4	2687.7	2184.6	1722.2	1358.8	1155.4	1065.9	1021.1	987.2	984.5
35°	3630.2	3283.0	2779.9	2040.9	1499.8	1139.1	991.3	920.8	858.4	819.1	825.8
37.5°	4039.7	3626.1	2830.1	1846.9	1250.3	968.2	867.9	796.0	725.5	667.2	674.0
40°	4525.1	4074.9	2826.0	1592.0	1022.5	851.6	764.8	680.7	592.6	539.7	545.1
42.5°	5066.2	4499.4	2737.9	1322.2	847.5	756.7	665.8	560.0	474.6	442.1	443.4
45°	5535.4	4843.8	2583.3	1042.8	713.3	664.5	562.8	454.3	416.3	393.3	391.9
47.5°	5882.6	5096.0	2362.2	820.4	604.8	580.4	462.4	406.8	377.0	358.0	355.3
50°	6076.5	5184.2	2118.2	642.8	511.2	492.2	413.6	368.8	348.5	336.3	333.6
52.5°	6336.8	5290.0	1943.2	507.2	428.5	402.7	381.1	343.1	329.5	320.0	316.0
55°	6749.1	5494.7	1791.3	402.7	356.6	351.2	359.4	328.2	320.0	305.1	299.7
57.5°	6361.2	4936.0	1391.3	311.9	301.0	321.4	347.1	313.2	292.9	279.3	273.9
60°	4476.3	3281.6	699.7	250.9	268.5	301.0	326.8	283.4	263.1	265.8	263.1
62.5°	2468.0	1642.2	314.6	210.2	233.2	265.8	279.3	245.4	231.9	254.9	259.0
65°	806.9	558.7	181.7	162.7	184.4	217.0	241.4	233.2	230.5	257.7	265.8
67.5°	248.2	184.4	123.4	116.6	127.5	160.0	203.4	252.2	271.2	279.3	283.4
70°	185.8	145.1	105.8	99.0	104.4	122.0	172.2	210.2	198.0	199.3	196.6
72.5°	149.2	115.3	90.9	86.8	86.8	84.1	90.9	113.9	128.8	135.6	135.6
75°	104.4	81.4	69.2	63.7	50.2	40.7	36.6	36.6	32.5	31.2	29.8
77.5°	35.3	29.8	27.1	21.7	14.9	12.2	10.8	9.5	6.8	4.1	2.7
80°	5.4	4.1	2.7	2.7	2.7	1.4	1.4	1.4	0.0	0.0	0.0
82.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	0.0	0.0	0.0	0.0
85°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	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)