

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: P637003

Luminaire Tested: GWS-SA4B-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829.9 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

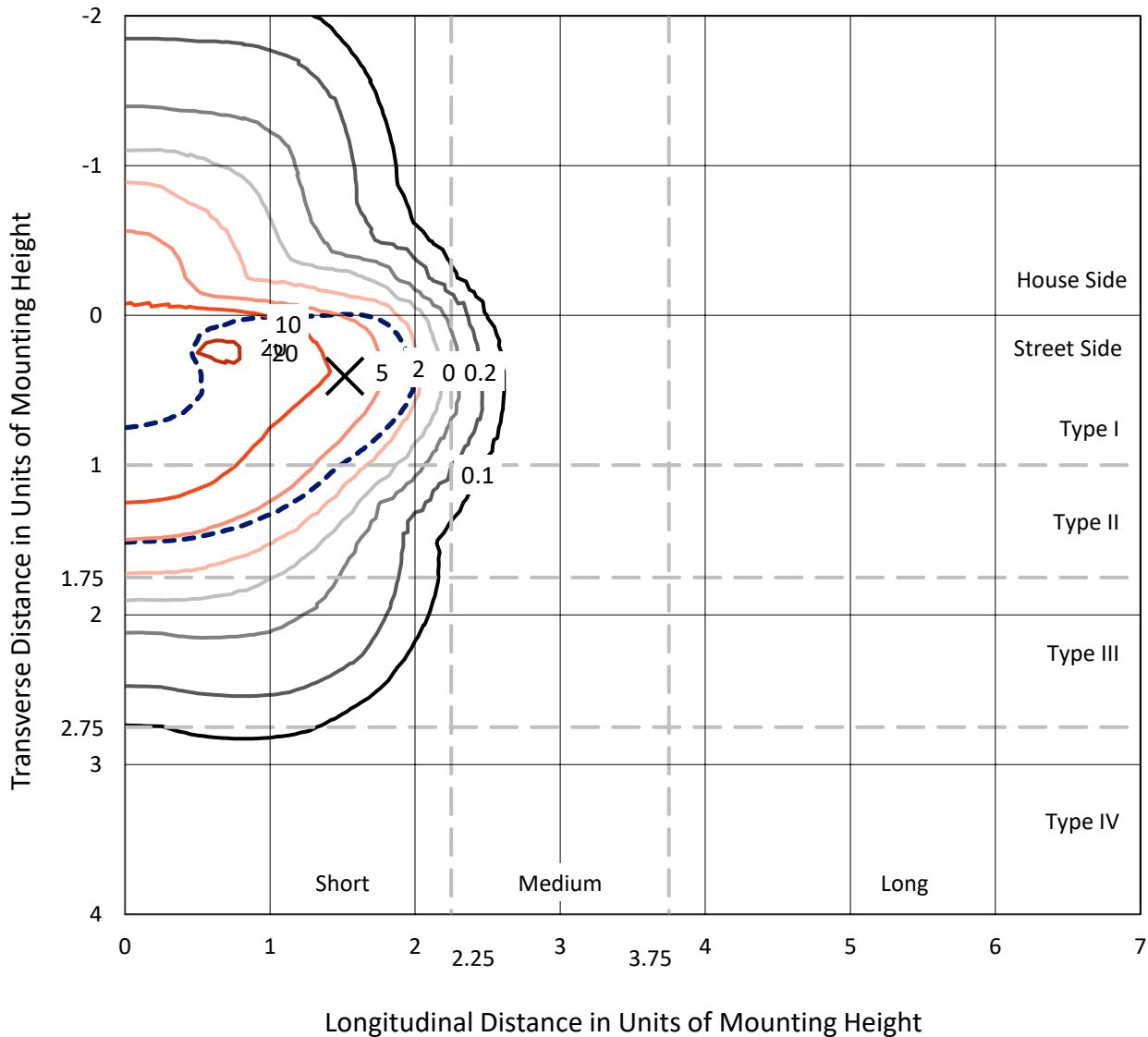
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637003
 CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

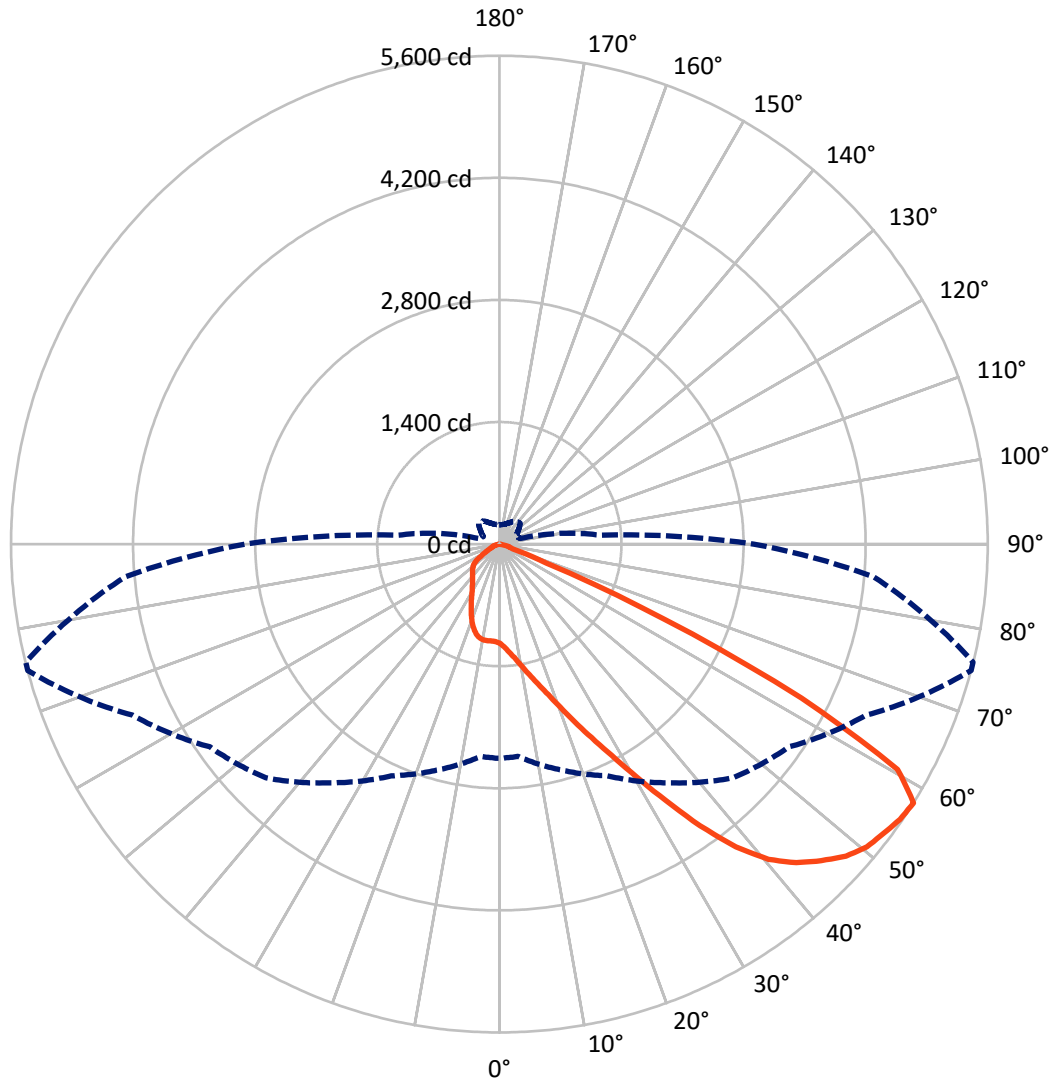
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637003
CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637003

CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

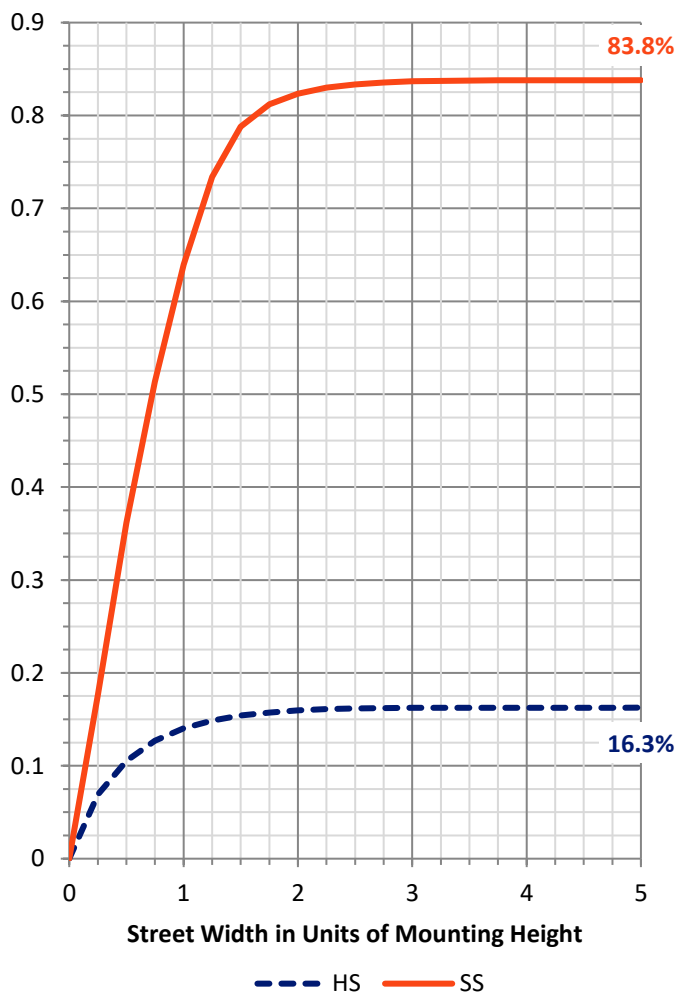
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.6	0.0	1115.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	5714.3	0.0	5714.3
	% Fixture	83.7	0.0	83.7
Total	Lumens	6829.9	0.0	6829.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	1.7
10°-20°	376.5	5.5
20°-30°	689.5	10.1
30°-40°	1144.0	16.8
40°-50°	1747.2	25.6
50°-60°	1963.3	28.7
60°-70°	724.1	10.6
70°-80°	69.2	1.0
80°-90°	0.1	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°	6829.9	100.0
0°-180°	6829.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637003

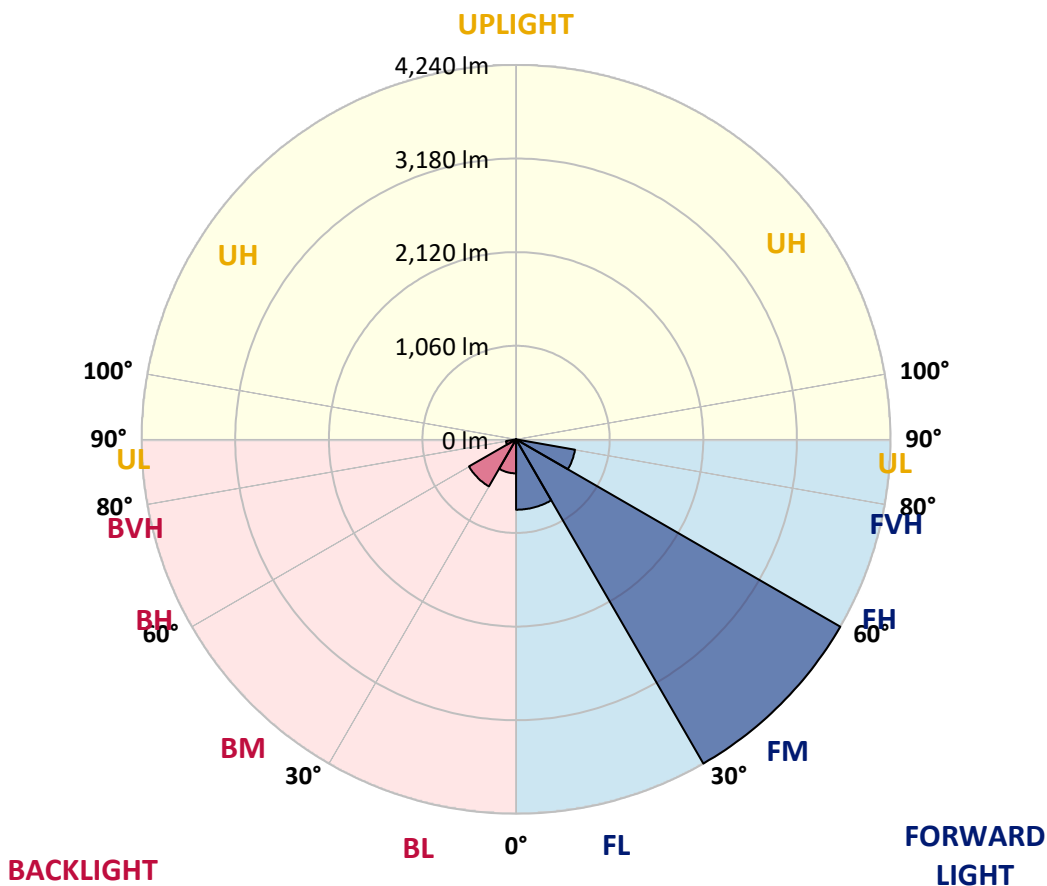
CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	797.0	11.7			
FM (30°-60°)	4239.7	62.1			
FH (60°-80°)	677.5	9.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	385.0	5.6	B1/500		
BM (30°-60°)	614.8	9.0	B1/1000		
BH (60°-80°)	115.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





REPORT NUMBER: P637003

CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1272.7	1285.9	1281.7	1273.5	1268.5	1251.2	1240.5	1209.2	1186.9	1184.5	1163.9
5°	1433.4	1430.9	1427.6	1417.7	1409.5	1382.3	1350.1	1297.4	1250.4	1244.6	1201.0
7.5°	1521.6	1523.2	1524.9	1523.2	1517.5	1496.9	1461.4	1399.6	1327.9	1322.9	1253.7
10°	1557.9	1561.2	1569.4	1585.1	1599.1	1597.4	1576.8	1513.3	1425.2	1416.9	1323.8
12.5°	1575.2	1579.3	1592.5	1622.2	1660.1	1689.7	1693.0	1636.2	1538.9	1525.7	1407.0
15°	1599.1	1603.2	1619.7	1658.4	1713.6	1772.2	1810.1	1773.8	1665.0	1651.0	1498.5
17.5°	1609.8	1615.6	1639.5	1690.6	1762.3	1852.1	1937.8	1934.5	1814.2	1803.5	1604.8
20°	1630.4	1634.5	1655.9	1711.2	1797.7	1927.1	2071.4	2123.3	1996.4	1980.7	1733.4
22.5°	1695.5	1697.2	1707.0	1741.7	1822.4	1981.5	2207.4	2343.4	2211.5	2190.9	1877.7
25°	1801.8	1801.0	1805.1	1810.9	1870.3	2036.8	2338.4	2591.5	2458.0	2435.7	2040.9
27.5°	1937.0	1937.0	1946.9	1930.4	1954.3	2105.2	2467.8	2876.7	2744.8	2713.5	2219.7
30°	2096.1	2095.3	2118.4	2092.0	2099.4	2213.1	2607.1	3187.4	3091.0	3052.2	2425.8
32.5°	2312.1	2307.1	2333.5	2297.2	2272.5	2376.4	2776.9	3512.2	3505.6	3446.2	2684.6
35°	2584.9	2576.6	2584.9	2549.4	2504.9	2604.7	2999.5	3836.1	3965.5	3902.9	2992.9
37.5°	2856.1	2882.4	2891.5	2830.5	2794.3	2894.0	3267.4	4126.3	4404.9	4339.7	3313.5
40°	3175.9	3167.6	3199.0	3130.6	3107.5	3217.9	3529.5	4342.2	4752.7	4690.9	3598.7
42.5°	3411.6	3426.5	3465.2	3427.3	3409.2	3513.0	3749.6	4468.3	4994.2	4933.2	3802.3
45°	3694.3	3705.1	3719.9	3688.6	3669.6	3771.8	3908.7	4523.6	5178.0	5112.1	3939.2
47.5°	4000.2	4008.4	4008.4	3944.1	3883.1	3925.1	4015.0	4554.9	5347.0	5283.5	4040.5
50°	4219.4	4223.5	4259.8	4214.5	4081.8	4016.6	4063.6	4585.4	5459.1	5399.8	4073.5
52.5°	4024.9	4019.9	4139.5	4233.4	4268.9	4139.5	4147.7	4629.9	5513.5	5462.4	4099.9
55°	3389.4	3381.1	3549.3	3777.6	4090.0	4255.7	4249.1	4656.3	5573.7	5542.3	4195.5
57.5°	2457.1	2443.1	2677.2	2931.1	3340.7	3790.0	4053.7	4641.4	5600.0	5597.6	4306.8
60°	1477.1	1465.5	1686.4	1953.5	2270.0	2721.7	3159.4	4157.6	5247.3	5252.2	4017.5
62.5°	909.2	919.9	1119.3	1255.4	1373.2	1509.2	1762.3	2796.7	3887.2	3919.4	2823.1
65°	611.6	619.8	804.5	975.9	975.9	797.9	685.0	1337.0	2073.8	2019.4	1335.3
67.5°	410.5	419.6	565.4	765.7	794.6	556.4	277.8	398.9	577.8	560.5	330.5
70°	241.5	251.4	376.7	525.1	578.6	387.4	185.5	169.0	164.0	159.1	128.6
72.5°	108.0	112.1	192.1	267.1	244.0	163.2	131.1	135.2	127.8	125.3	104.7
75°	33.0	34.6	49.5	57.7	58.5	58.5	79.1	106.3	100.6	101.4	80.8
77.5°	8.2	8.2	13.2	12.4	6.6	5.8	14.8	23.9	24.7	22.3	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P637003

CATALOG NUMBER: GWS-SA4B-830-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1	1139.1
2.5°	1154.8	1133.4	1119.3	1099.6	1085.6	1070.7	1057.5	1046.8	1041.0	1039.4	1040.2
5°	1181.2	1147.4	1114.4	1076.5	1050.1	1025.4	1005.6	989.9	982.5	980.0	980.0
7.5°	1221.6	1174.6	1116.1	1056.7	1012.2	973.5	950.4	933.1	926.5	924.8	919.9
10°	1274.3	1210.0	1113.6	1021.3	958.6	918.2	901.7	896.8	899.3	900.1	899.3
12.5°	1337.8	1247.1	1097.9	969.3	901.7	877.0	878.7	891.9	906.7	914.1	915.8
15°	1405.4	1280.9	1062.5	907.5	853.1	852.3	876.2	906.7	935.5	947.9	951.2
17.5°	1481.2	1308.1	1008.1	841.6	811.1	835.0	877.8	924.8	963.6	984.2	988.3
20°	1564.5	1330.4	938.8	779.8	774.0	816.8	876.2	933.9	981.7	1004.8	1008.9
22.5°	1651.0	1346.0	858.9	722.9	740.2	796.2	860.5	916.6	961.9	988.3	991.6
25°	1749.9	1347.7	777.3	675.1	708.9	768.2	822.6	868.8	906.7	929.8	932.2
27.5°	1836.5	1327.9	704.7	636.3	680.0	733.6	769.9	795.4	821.8	835.0	835.8
30°	1936.2	1293.3	636.3	605.0	650.3	690.7	708.9	714.6	717.1	719.6	716.3
32.5°	2054.9	1251.2	585.2	574.5	616.5	643.7	648.7	637.2	623.1	603.4	598.4
35°	2200.8	1213.3	543.2	544.8	579.5	595.9	591.8	567.1	539.9	516.0	511.9
37.5°	2359.0	1181.2	511.0	516.0	539.1	550.6	538.2	511.0	498.7	478.1	478.9
40°	2499.2	1154.8	482.2	487.1	497.9	508.6	488.8	470.7	493.7	492.1	493.7
42.5°	2598.9	1132.5	457.5	455.0	462.4	469.8	455.0	445.9	484.7	474.0	479.7
45°	2657.4	1111.9	436.9	422.0	433.6	446.8	436.9	425.3	438.5	389.1	384.9
47.5°	2697.0	1100.4	418.7	389.9	410.5	433.6	413.0	384.9	366.0	323.1	319.8
50°	2701.1	1094.6	397.3	356.9	383.3	408.0	384.1	345.4	318.2	299.2	296.7
52.5°	2722.5	1106.2	367.6	314.9	343.7	383.3	366.8	328.1	291.0	274.5	271.2
55°	2818.2	1154.8	318.2	257.2	299.2	364.3	352.8	292.6	257.2	247.3	244.8
57.5°	2917.1	1164.7	250.6	203.6	260.5	337.1	322.3	269.5	234.9	223.4	220.9
60°	2667.3	959.4	187.9	168.1	230.0	311.6	298.4	255.5	215.1	201.1	198.6
62.5°	1752.4	518.5	149.2	142.6	193.7	263.8	272.0	230.8	192.1	177.2	176.4
65°	807.8	240.7	114.6	112.9	151.7	210.2	234.1	201.9	162.4	149.2	149.2
67.5°	220.1	119.5	89.8	83.3	103.0	140.9	170.6	150.8	115.4	99.7	98.9
70°	109.6	96.4	80.8	71.7	74.2	87.4	100.6	84.1	58.5	47.8	47.0
72.5°	89.8	79.1	68.4	61.0	56.0	53.6	51.9	42.0	27.2	20.6	19.8
75°	66.8	56.9	48.6	39.6	33.8	31.3	28.0	20.6	11.5	6.6	5.8
77.5°	14.8	14.0	13.2	9.9	9.1	7.4	5.8	4.1	1.6	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)