

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: P637974

Luminaire Tested: GWS-SA4D-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 11423 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

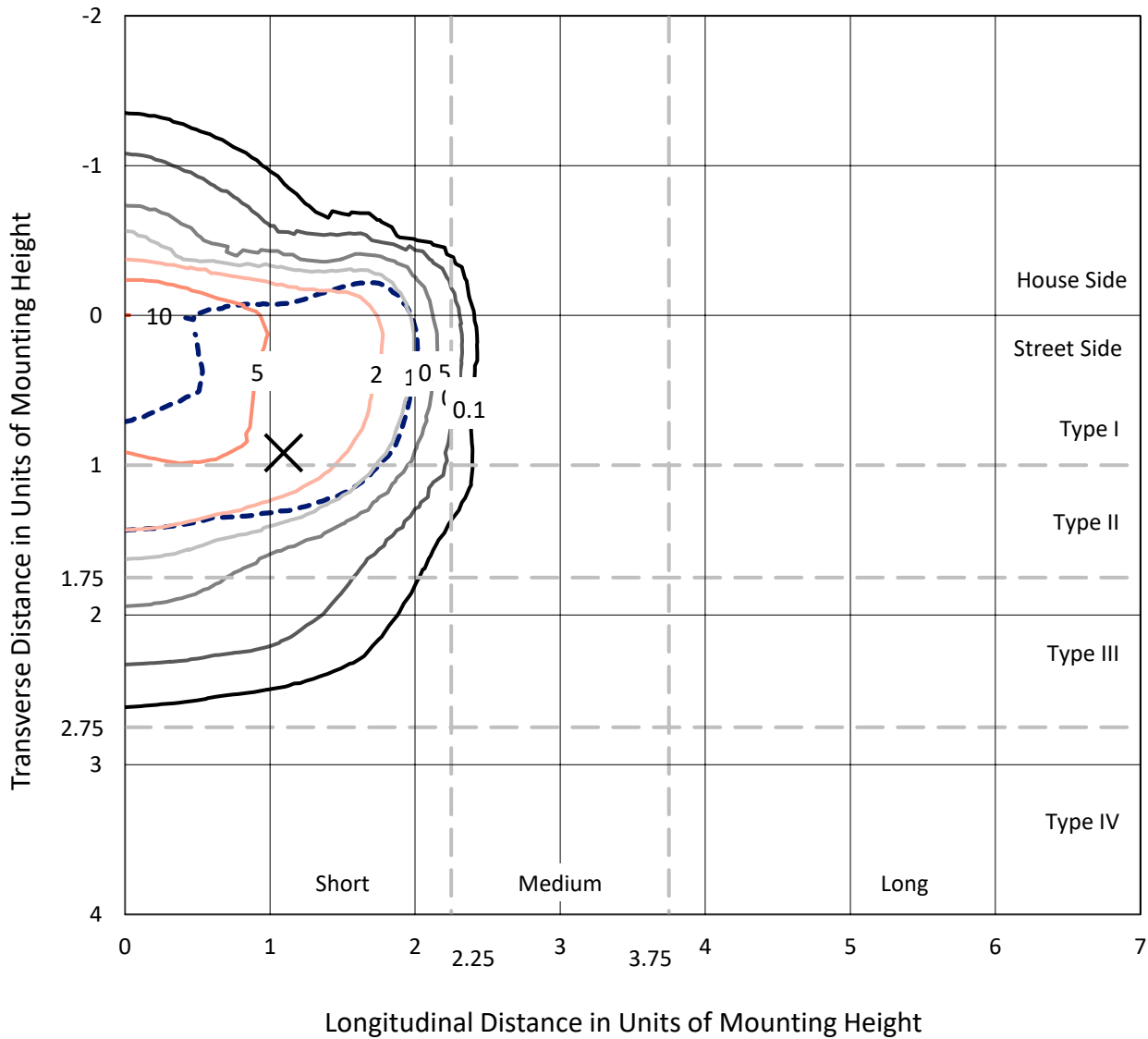
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637974
 CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

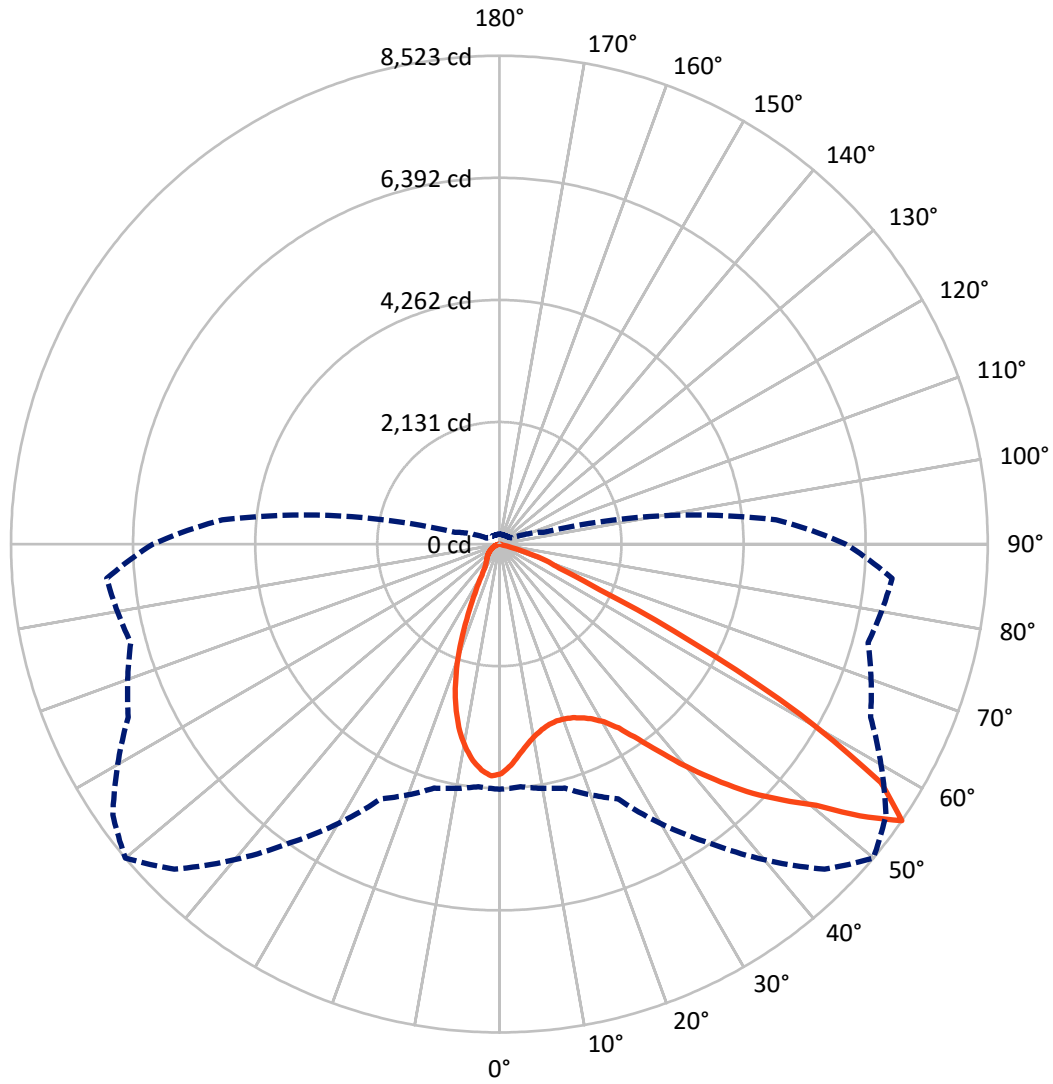
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

REPORT NUMBER: P637974
CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P637974
 CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

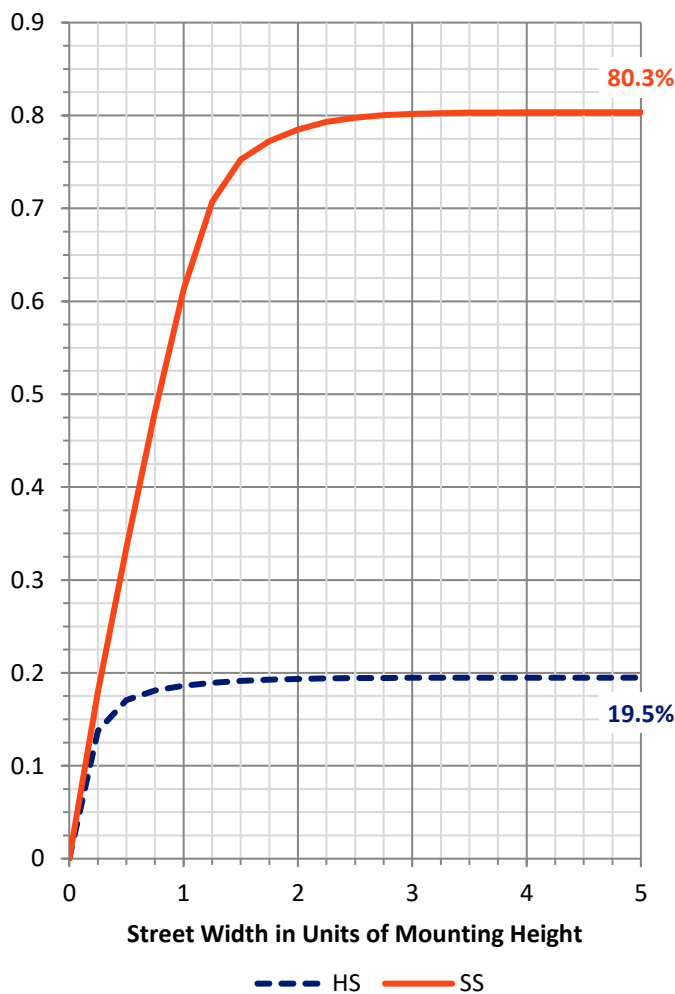
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2250.9	0.0	2250.9
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	9172.1	0.0	9172.1
	% Fixture	80.3	0.0	80.3
Total	Lumens	11423.0	0.0	11423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	3.1
10°-20°	866.1	7.6
20°-30°	1221.7	10.7
30°-40°	1807.9	15.8
40°-50°	2608.2	22.8
50°-60°	3076.6	26.9
60°-70°	1372.4	12.0
70°-80°	118.0	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°	11423.0	100.0
0°-180°	11423.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637974

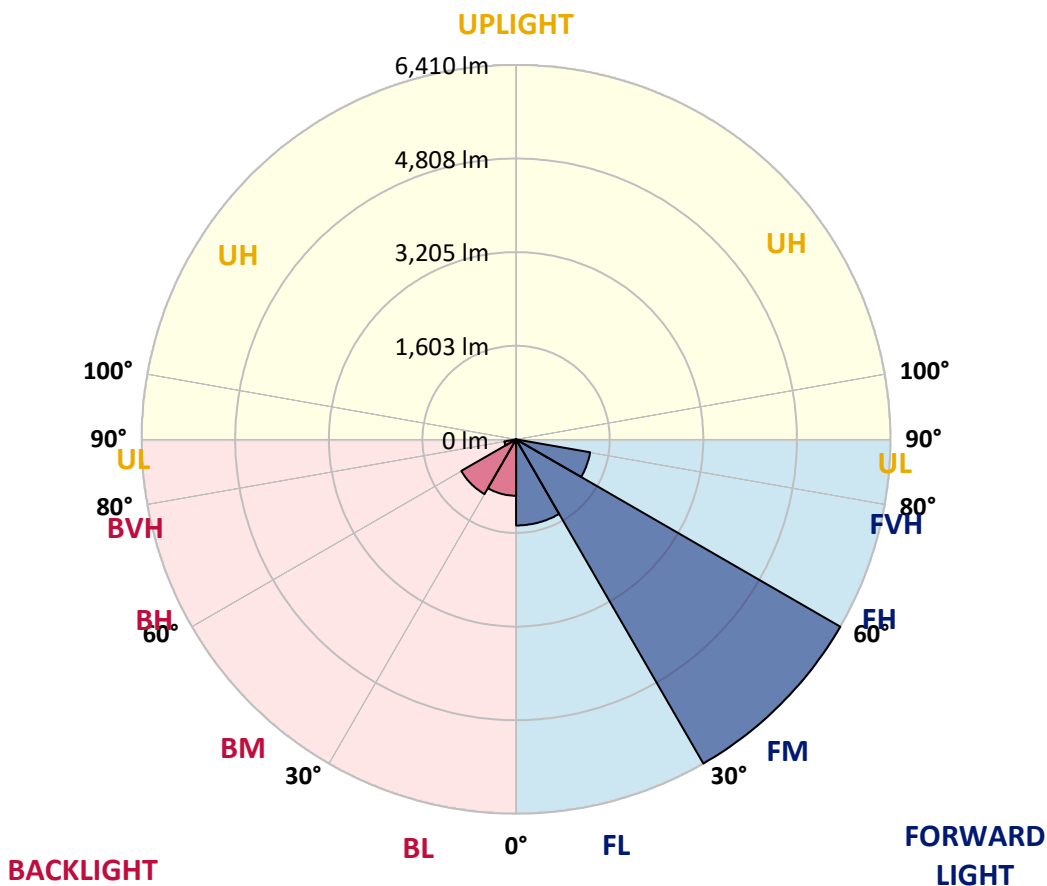
CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.7	12.9			
FM (30°-60°)	6410.2	56.1			
FH (60°-80°)	1287.2	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	965.1	8.4	B2/1000		
BM (30°-60°)	1082.5	9.5	B2/2500		
BH (60°-80°)	203.2	1.8	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: B2-U0-G1

Type II Short





REPORT NUMBER: P637974

CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8
2.5°	3723.3	3726.1	3727.5	3765.2	3779.1	3834.9	3864.2	3879.5	3920.0	3967.4	4006.4
5°	3473.7	3469.5	3476.5	3523.9	3554.6	3636.9	3681.5	3712.2	3801.4	3913.0	4006.4
7.5°	3256.2	3264.5	3272.9	3324.5	3370.5	3459.8	3523.9	3569.9	3694.1	3860.0	4017.6
10°	3102.8	3102.8	3115.3	3173.9	3228.3	3338.5	3402.6	3461.2	3609.0	3812.6	4030.1
12.5°	2989.8	2991.2	3006.6	3073.5	3136.3	3250.6	3317.5	3374.7	3537.9	3765.2	4032.9
15°	2936.8	2932.7	2945.2	3016.3	3086.1	3193.4	3263.2	3318.9	3487.7	3738.7	4046.9
17.5°	2922.9	2920.1	2929.9	2999.6	3070.7	3175.3	3243.6	3299.4	3480.7	3747.1	4088.7
20°	2963.3	2957.8	2953.6	3013.5	3080.5	3183.7	3254.8	3317.5	3514.2	3793.1	4152.9
22.5°	3059.6	3059.6	3049.8	3079.1	3123.7	3217.1	3291.0	3373.3	3602.0	3885.1	4247.7
25°	3236.7	3222.7	3204.6	3217.1	3211.6	3270.1	3358.0	3472.3	3768.0	4037.1	4363.4
27.5°	3438.9	3451.4	3420.7	3422.1	3373.3	3352.4	3454.2	3627.1	4014.8	4251.9	4534.9
30°	3713.6	3703.8	3705.2	3701.0	3588.1	3489.1	3599.2	3829.3	4325.8	4579.6	4758.1
32.5°	3928.3	3942.3	3988.3	4014.8	3867.0	3708.0	3825.1	4104.0	4680.0	4953.3	5031.4
35°	4155.6	4180.7	4274.2	4360.6	4236.5	4053.8	4179.3	4468.0	5013.3	5322.8	5345.2
37.5°	4395.5	4445.7	4557.3	4709.3	4689.7	4528.0	4642.3	4896.1	5275.4	5546.0	5604.5
40°	4670.2	4719.0	4901.7	5120.6	5166.7	5130.4	5168.1	5315.9	5448.4	5555.7	5716.1
42.5°	4971.4	5038.4	5269.9	5562.7	5735.6	5767.7	5679.8	5664.5	5523.7	5444.2	5692.4
45°	5327.0	5405.1	5667.3	6046.6	6321.3	6364.5	6212.5	6015.9	5571.1	5361.9	5621.3
47.5°	5725.9	5799.8	6060.5	6516.5	6925.1	6941.9	6676.9	6360.4	5711.9	5456.7	5675.7
50°	5859.7	5905.8	6131.7	6667.2	7420.2	7548.5	7165.0	6748.0	5995.0	5735.6	5940.6
52.5°	5399.5	5417.7	5614.3	6155.4	7319.8	8143.9	7877.6	7326.8	6498.4	6160.9	6349.2
55°	4278.4	4249.1	4408.0	4904.5	6361.8	8022.6	8523.2	8236.0	7146.9	6660.2	6880.5
57.5°	2992.6	2957.8	2921.5	3257.6	4746.9	6801.0	7853.9	8362.9	7764.6	7155.2	7453.7
60°	2459.9	2426.4	2250.7	2095.9	2869.9	4883.6	6032.7	6990.7	7714.4	7130.1	7435.5
62.5°	2125.2	2105.7	2034.6	1824.0	1688.8	2787.6	3777.7	4695.3	5919.7	5599.0	5615.7
65°	1669.2	1663.7	1712.5	1734.8	1493.5	1542.3	1927.2	2440.4	3200.4	3017.7	2861.5
67.5°	1140.7	1128.2	1220.2	1500.5	1436.3	1217.4	1128.2	1137.9	1384.7	846.5	672.2
70°	725.1	695.9	697.3	930.1	1168.6	960.8	870.2	765.6	688.9	125.5	142.2
72.5°	464.4	446.2	383.5	419.7	541.1	468.6	472.7	407.2	271.9	66.9	78.1
75°	195.2	179.9	138.1	110.2	108.8	68.3	60.0	55.8	37.7	37.7	40.4
77.5°	1.4	0.0	0.0	1.4	2.8	1.4	1.4	2.8	5.6	8.4	9.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P637974

CATALOG NUMBER: GWS-SA4D-830-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8	4007.8
2.5°	4030.1	3996.7	4034.3	4048.3	4046.9	4048.3	4007.8	3979.9	3978.5	3943.7	3926.9
5°	4045.5	4019.0	4046.9	4028.7	3985.5	3931.1	3858.6	3795.9	3768.0	3727.5	3708.0
7.5°	4074.8	4046.9	4042.7	3970.2	3862.8	3748.4	3620.1	3505.8	3444.4	3370.5	3374.7
10°	4095.7	4063.6	4009.2	3861.4	3682.9	3500.2	3309.2	3139.0	3031.7	2932.7	2915.9
12.5°	4104.0	4056.6	3929.7	3706.6	3455.6	3217.1	2936.8	2694.2	2526.9	2397.2	2379.0
15°	4119.4	4042.7	3827.9	3519.7	3175.3	2837.8	2480.8	2148.9	1927.2	1778.0	1790.6
17.5°	4143.1	4027.3	3713.6	3310.6	2874.1	2397.2	1914.7	1534.0	1330.4	1243.9	1245.3
20°	4176.6	4009.2	3588.1	3080.5	2512.9	1899.3	1338.7	1051.5	994.3	991.5	987.3
22.5°	4221.2	3991.1	3454.2	2828.1	2084.8	1330.4	891.1	801.8	825.6	871.6	879.9
25°	4274.2	3968.8	3305.0	2543.6	1617.6	873.0	668.0	654.0	711.2	772.6	786.5
27.5°	4356.5	3957.6	3134.9	2220.1	1135.1	626.1	546.6	555.0	606.6	658.2	670.8
30°	4495.9	3978.5	2949.4	1857.5	729.3	499.2	474.1	486.7	514.6	541.1	552.2
32.5°	4685.6	4039.9	2769.5	1461.4	520.2	433.7	428.1	435.1	446.2	461.6	465.8
35°	4907.3	4145.9	2584.0	1045.9	429.5	396.0	390.5	390.5	396.0	398.8	400.2
37.5°	5090.0	4257.4	2409.7	695.9	384.9	366.8	358.4	354.2	352.8	355.6	357.0
40°	5169.5	4303.5	2220.1	506.2	352.8	340.3	327.7	315.2	315.2	324.9	326.3
42.5°	5113.7	4251.9	2001.1	418.4	330.5	312.4	292.8	281.7	287.3	297.0	299.8
45°	4995.1	4125.0	1759.9	369.5	308.2	284.5	262.2	255.2	260.8	273.3	276.1
47.5°	4975.6	4041.3	1471.2	337.5	284.5	260.8	237.1	230.1	237.1	246.8	249.6
50°	5169.5	4113.8	1150.5	309.6	262.2	235.7	216.1	209.2	213.4	218.9	221.7
52.5°	5523.7	4382.9	928.7	283.1	235.7	210.6	198.0	189.7	189.7	195.2	196.6
55°	6046.6	4852.9	801.8	252.4	205.0	191.0	179.9	171.5	171.5	174.3	175.7
57.5°	6649.0	5421.9	831.1	212.0	179.9	172.9	163.2	156.2	159.0	159.0	159.0
60°	6565.4	5380.0	889.7	178.5	159.0	156.2	147.8	145.0	152.0	146.4	143.6
62.5°	4836.2	3716.4	465.8	146.4	136.7	133.9	128.3	133.9	143.6	128.3	122.7
65°	2348.4	1798.9	186.9	119.9	115.7	113.0	110.2	118.5	124.1	100.4	94.8
67.5°	552.2	449.0	121.3	101.8	96.2	90.6	93.4	94.8	90.6	68.3	65.5
70°	143.6	140.8	94.8	85.1	76.7	71.1	71.1	69.7	60.0	43.2	40.4
72.5°	78.1	76.7	68.3	64.1	53.0	47.4	48.8	43.2	33.5	25.1	23.7
75°	39.0	41.8	39.0	36.3	29.3	26.5	26.5	23.7	16.7	9.8	9.8
77.5°	8.4	9.8	9.8	8.4	7.0	5.6	5.6	7.0	2.8	0.0	0.0
80°	1.4	1.4	1.4	1.4	1.4	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)