

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: P635994

Luminaire Tested: GWS-SA3E-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635994
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-SA3E-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10258.1 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

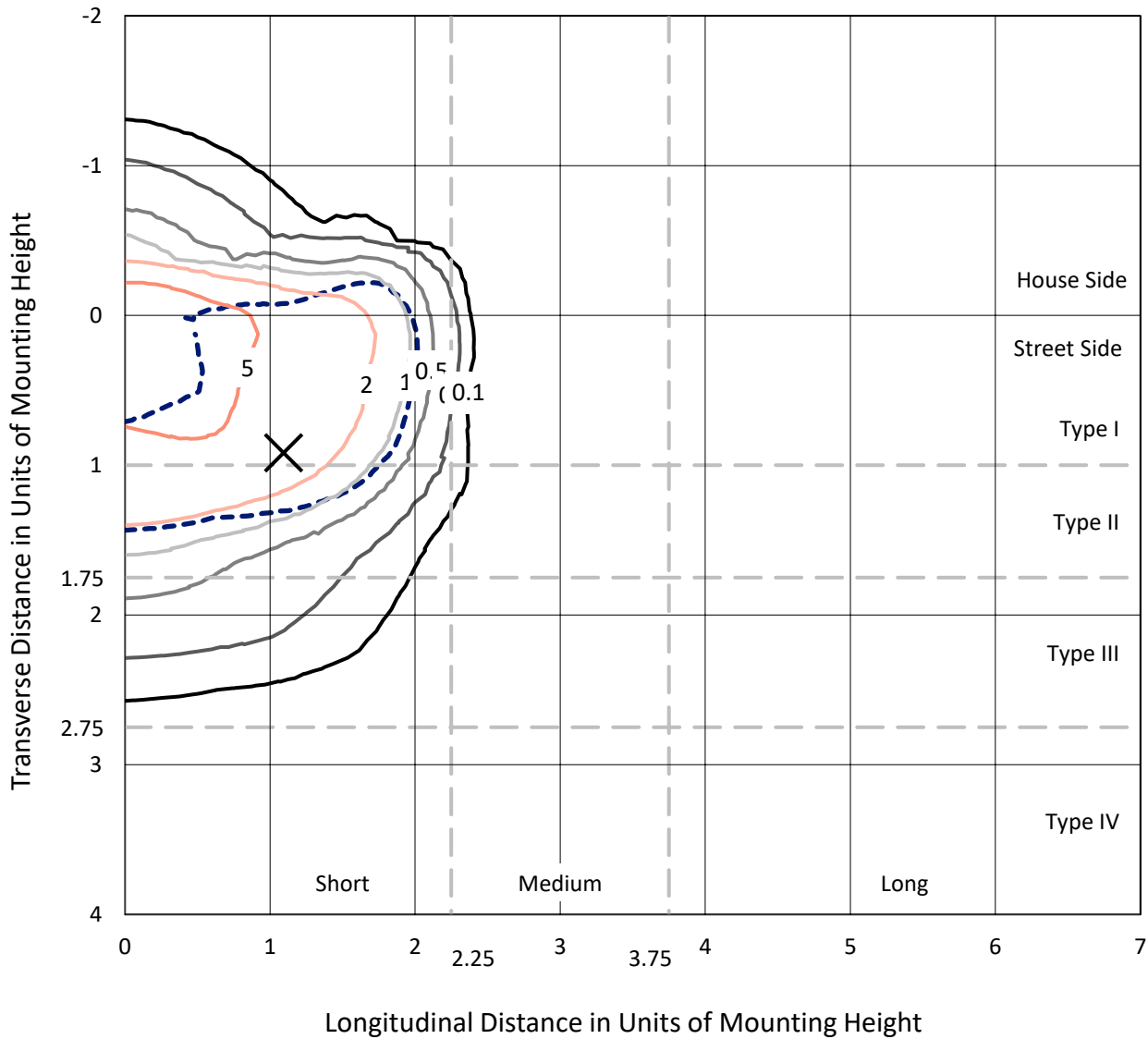
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

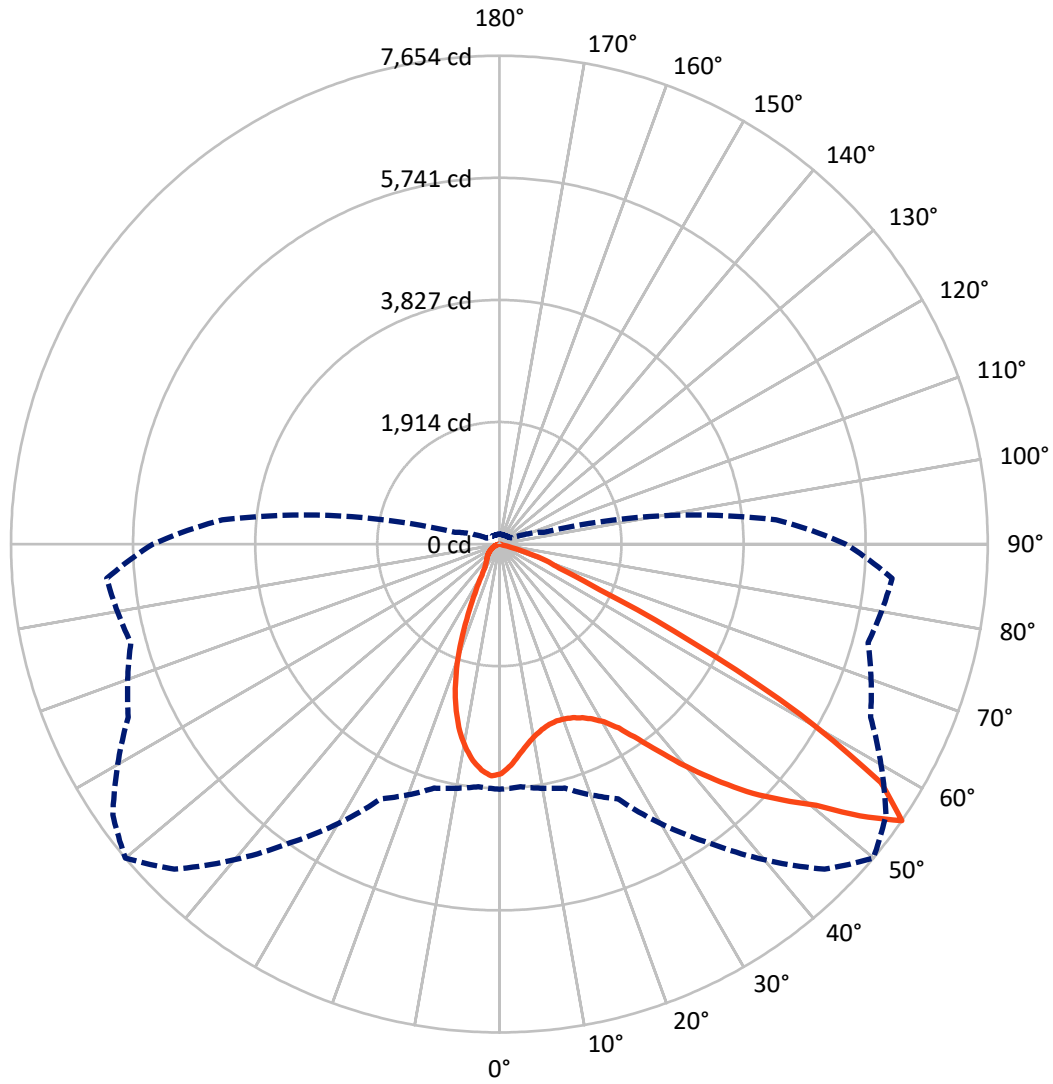
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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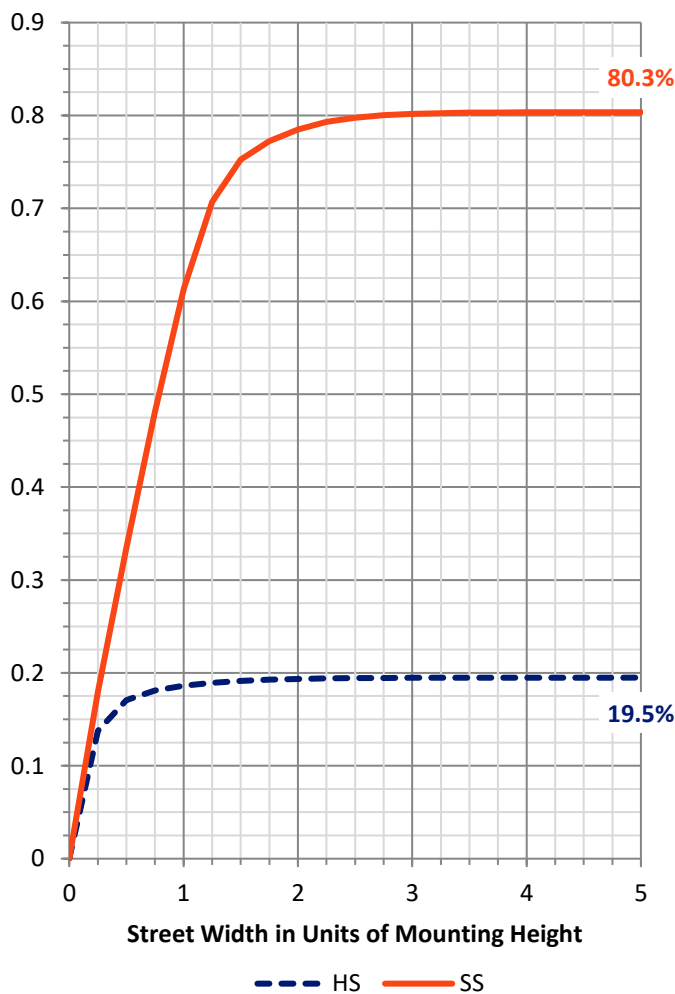
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.3	0.0	2021.3
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	8236.8	0.0	8236.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	10258.1	0.0	10258.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	3.1
10°-20°	777.8	7.6
20°-30°	1097.1	10.7
30°-40°	1623.5	15.8
40°-50°	2342.2	22.8
50°-60°	2762.8	26.9
60°-70°	1232.5	12.0
70°-80°	106.0	1.0
80°-90°	0.0	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°	10258.1	100.0
0°-180°	10258.1	100.0

Coefficient of Utilization



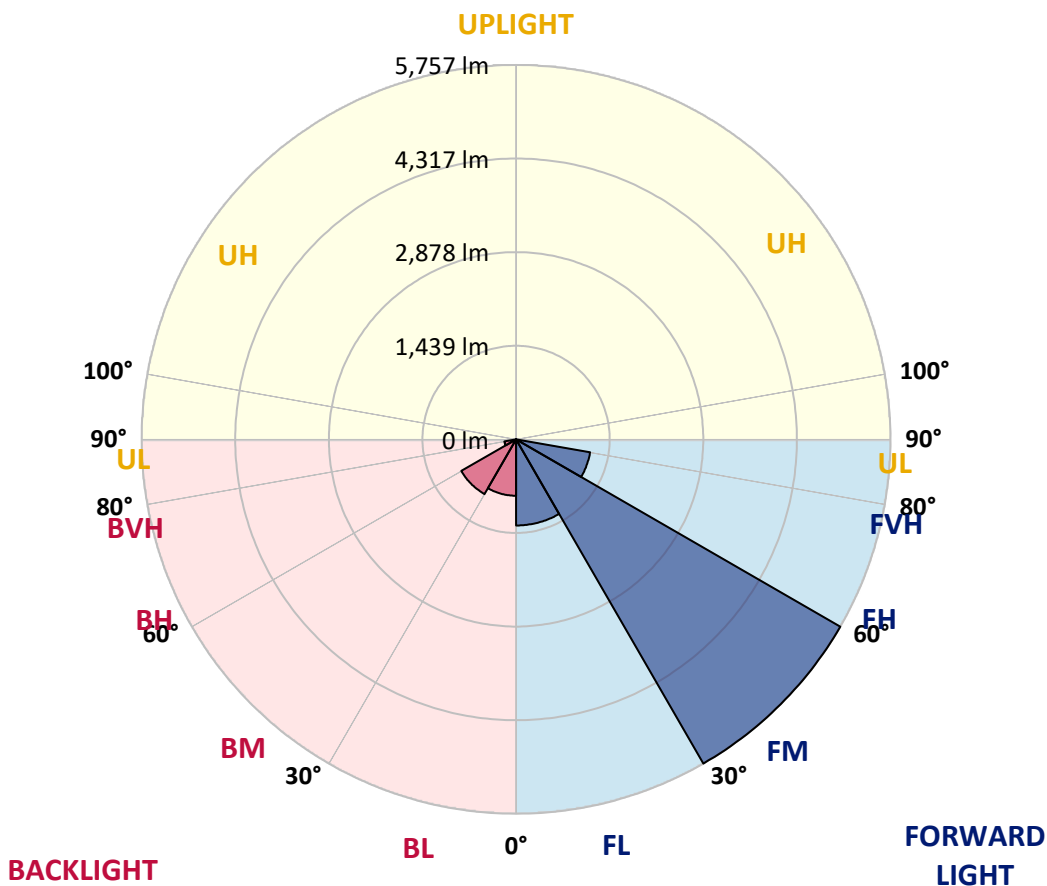
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.4	12.9			
FM (30°-60°)	5756.5	56.1			
FH (60°-80°)	1155.9	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	866.7	8.4	B2/1000		
BM (30°-60°)	972.1	9.5	B1/1000		
BH (60°-80°)	182.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1
2.5°	3343.6	3346.1	3347.4	3381.2	3393.7	3443.8	3470.1	3483.9	3520.2	3562.8	3597.9
5°	3119.5	3115.7	3122.0	3164.6	3192.1	3266.0	3306.1	3333.6	3413.8	3514.0	3597.9
7.5°	2924.1	2931.6	2939.1	2985.5	3026.8	3107.0	3164.6	3205.9	3317.3	3466.4	3607.9
10°	2786.4	2786.4	2797.6	2850.2	2899.1	2998.0	3055.6	3108.2	3241.0	3423.8	3619.1
12.5°	2684.9	2686.2	2700.0	2760.1	2816.4	2919.1	2979.2	3030.6	3177.1	3381.2	3621.7
15°	2637.3	2633.6	2644.9	2708.7	2771.3	2867.8	2930.4	2980.5	3132.0	3357.4	3634.2
17.5°	2624.8	2622.3	2631.1	2693.7	2757.6	2851.5	2912.9	2962.9	3125.7	3364.9	3671.7
20°	2661.1	2656.1	2652.4	2706.2	2766.3	2859.0	2922.9	2979.2	3155.8	3406.3	3729.4
22.5°	2747.5	2747.5	2738.8	2765.1	2805.2	2889.1	2955.4	3029.3	3234.7	3488.9	3814.5
25°	2906.6	2894.1	2877.8	2889.1	2884.0	2936.6	3015.5	3118.2	3383.7	3625.4	3918.4
27.5°	3088.2	3099.4	3071.9	3073.1	3029.3	3010.5	3101.9	3257.2	3605.4	3818.3	4072.5
30°	3334.9	3326.1	3327.4	3323.6	3222.2	3133.3	3232.2	3438.8	3884.6	4112.6	4272.8
32.5°	3527.7	3540.3	3581.6	3605.4	3472.6	3329.9	3435.1	3685.5	4202.7	4448.2	4518.3
35°	3731.9	3754.4	3838.3	3915.9	3804.5	3640.4	3753.1	4012.4	4502.0	4780.0	4800.1
37.5°	3947.3	3992.3	4092.5	4229.0	4211.5	4066.2	4168.9	4396.8	4737.5	4980.4	5033.0
40°	4194.0	4237.8	4401.8	4598.4	4639.8	4607.2	4641.0	4773.8	4892.7	4989.2	5133.2
42.5°	4464.5	4524.6	4732.4	4995.4	5150.7	5179.5	5100.6	5086.8	4960.4	4889.0	5111.9
45°	4783.8	4853.9	5089.3	5430.0	5676.7	5715.5	5579.0	5402.4	5002.9	4815.1	5048.0
47.5°	5141.9	5208.3	5442.5	5852.0	6218.9	6234.0	5996.0	5711.7	5129.4	4900.3	5096.9
50°	5262.2	5303.5	5506.4	5987.2	6663.5	6778.7	6434.3	6059.9	5383.6	5150.7	5334.8
52.5°	4848.9	4865.2	5041.8	5527.7	6573.3	7313.4	7074.2	6579.6	5835.7	5532.7	5701.7
55°	3842.1	3815.8	3958.5	4404.3	5713.0	7204.5	7654.1	7396.1	6418.0	5981.0	6178.9
57.5°	2687.4	2656.1	2623.6	2925.4	4262.8	6107.5	7053.0	7510.0	6972.8	6425.6	6693.5
60°	2209.1	2179.0	2021.2	1882.2	2577.2	4385.6	5417.5	6277.8	6927.7	6403.0	6677.3
62.5°	1908.5	1891.0	1827.1	1638.0	1516.5	2503.3	3392.5	4216.5	5316.0	5028.0	5043.0
65°	1499.0	1494.0	1537.8	1557.9	1341.2	1385.0	1730.7	2191.5	2874.0	2710.0	2569.7
67.5°	1024.4	1013.1	1095.8	1347.5	1289.9	1093.3	1013.1	1021.9	1243.5	760.1	603.6
70°	651.2	624.9	626.2	835.3	1049.4	862.8	781.4	687.5	618.6	112.7	127.7
72.5°	417.0	400.7	344.4	376.9	485.9	420.8	424.5	365.7	244.2	60.1	70.1
75°	175.3	161.5	124.0	98.9	97.7	61.4	53.8	50.1	33.8	33.8	36.3
77.5°	1.3	0.0	0.0	1.3	2.5	1.3	1.3	2.5	5.0	7.5	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1	3599.1
2.5°	3619.1	3589.1	3622.9	3635.4	3634.2	3635.4	3599.1	3574.1	3572.8	3541.5	3526.5
5°	3632.9	3609.1	3634.2	3617.9	3579.1	3530.2	3465.1	3408.8	3383.7	3347.4	3329.9
7.5°	3659.2	3634.2	3630.4	3565.3	3468.9	3366.2	3251.0	3148.3	3093.2	3026.8	3030.6
10°	3678.0	3649.2	3600.4	3467.6	3307.3	3143.3	2971.7	2818.9	2722.5	2633.6	2618.6
12.5°	3685.5	3642.9	3529.0	3328.6	3103.2	2889.1	2637.3	2419.4	2269.2	2152.7	2136.4
15°	3699.3	3630.4	3437.6	3160.8	2851.5	2548.4	2227.8	1929.8	1730.7	1596.7	1608.0
17.5°	3720.6	3616.6	3334.9	2973.0	2581.0	2152.7	1719.4	1377.5	1194.7	1117.1	1118.3
20°	3750.6	3600.4	3222.2	2766.3	2256.6	1705.6	1202.2	944.2	892.9	890.4	886.6
22.5°	3790.7	3584.1	3101.9	2539.7	1872.2	1194.7	800.2	720.1	741.4	782.7	790.2
25°	3838.3	3564.0	2968.0	2284.2	1452.7	783.9	599.9	587.3	638.7	693.8	706.3
27.5°	3912.2	3554.0	2815.2	1993.7	1019.4	562.3	490.9	498.4	544.8	591.1	602.4
30°	4037.4	3572.8	2648.6	1668.1	655.0	448.3	425.8	437.1	462.1	485.9	495.9
32.5°	4207.7	3627.9	2487.1	1312.4	467.1	389.5	384.5	390.7	400.7	414.5	418.3
35°	4406.8	3723.1	2320.5	939.2	385.7	355.7	350.6	350.6	355.7	358.2	359.4
37.5°	4570.9	3823.3	2164.0	624.9	345.6	329.4	321.8	318.1	316.8	319.3	320.6
40°	4642.3	3864.6	1993.7	454.6	316.8	305.6	294.3	283.0	283.0	291.8	293.0
42.5°	4592.2	3818.3	1797.1	375.7	296.8	280.5	263.0	253.0	258.0	266.7	269.2
45°	4485.7	3704.3	1580.4	331.9	276.8	255.5	235.4	229.2	234.2	245.5	248.0
47.5°	4468.2	3629.2	1321.2	303.1	255.5	234.2	212.9	206.6	212.9	221.7	224.2
50°	4642.3	3694.3	1033.1	278.0	235.4	211.6	194.1	187.8	191.6	196.6	199.1
52.5°	4960.4	3936.0	834.0	254.2	211.6	189.1	177.8	170.3	170.3	175.3	176.6
55°	5430.0	4358.0	720.1	226.7	184.1	171.6	161.5	154.0	154.0	156.5	157.8
57.5°	5971.0	4868.9	746.4	190.3	161.5	155.3	146.5	140.3	142.8	142.8	142.8
60°	5895.8	4831.4	799.0	160.3	142.8	140.3	132.7	130.2	136.5	131.5	129.0
62.5°	4343.0	3337.4	418.3	131.5	122.7	120.2	115.2	120.2	129.0	115.2	110.2
65°	2108.9	1615.5	167.8	107.7	103.9	101.4	98.9	106.4	111.5	90.2	85.2
67.5°	495.9	403.2	109.0	91.4	86.4	81.4	83.9	85.2	81.4	61.4	58.9
70°	129.0	126.5	85.2	76.4	68.9	63.9	63.9	62.6	53.8	38.8	36.3
72.5°	70.1	68.9	61.4	57.6	47.6	42.6	43.8	38.8	30.1	22.5	21.3
75°	35.1	37.6	35.1	32.6	26.3	23.8	23.8	21.3	15.0	8.8	8.8
77.5°	7.5	8.8	8.8	7.5	6.3	5.0	5.0	6.3	2.5	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	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)