

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: P639243

Luminaire Tested: GWS-SA5B-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10385.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

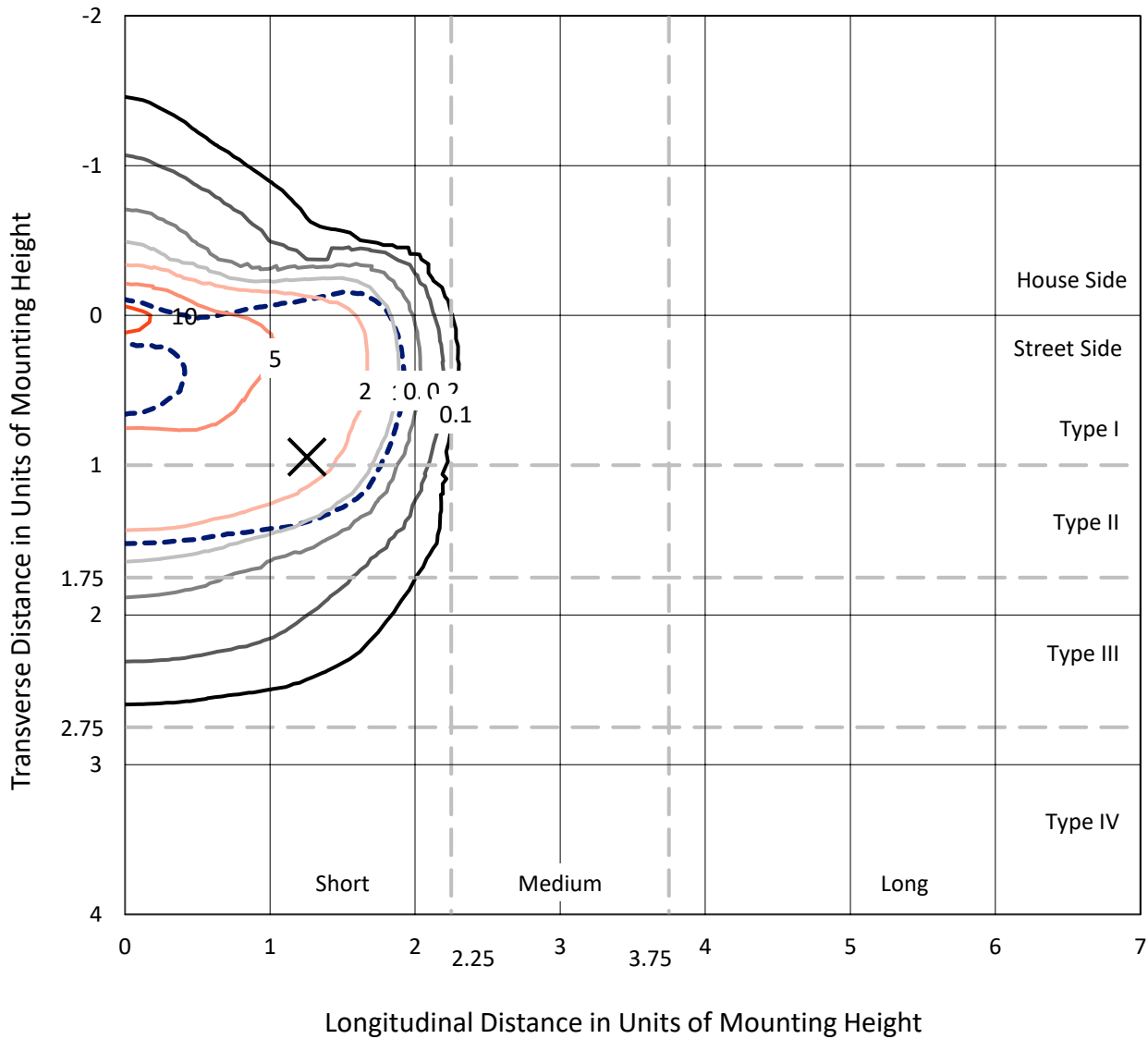
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

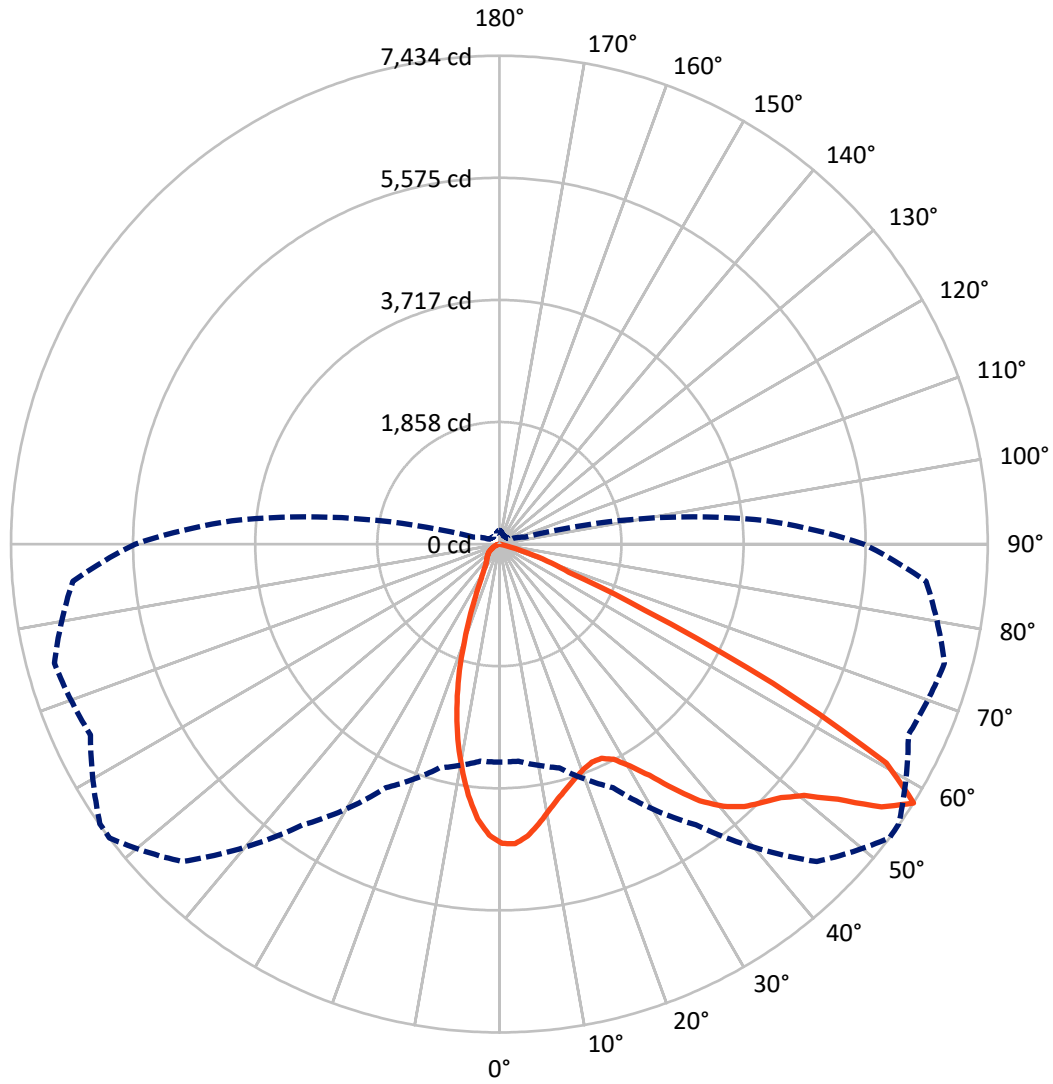
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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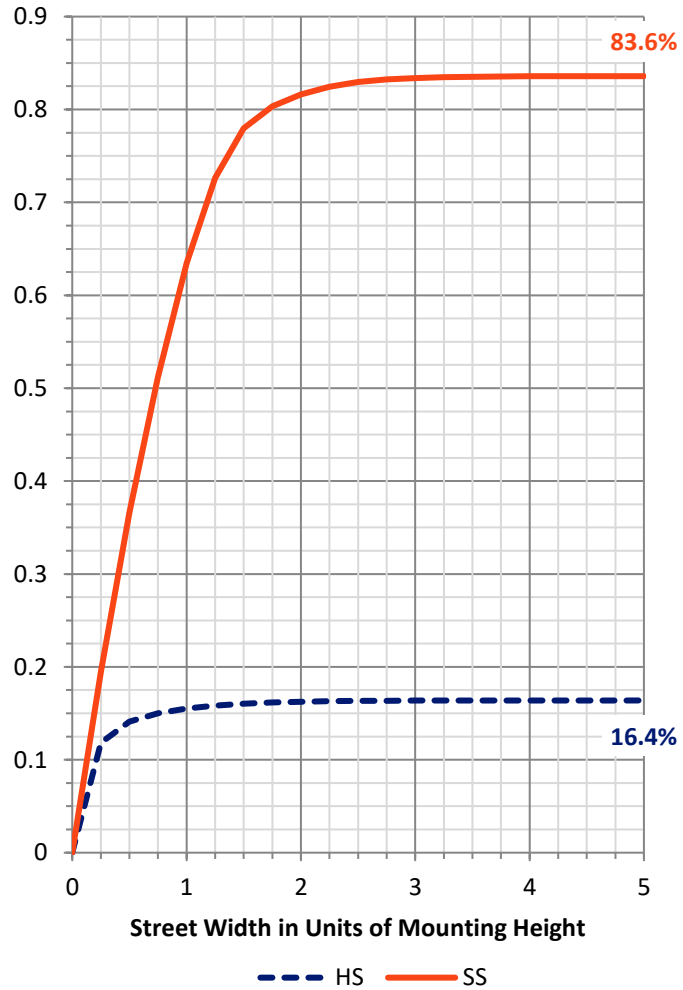
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1715.5	0.0	1715.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8669.8	0.0	8669.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10385.3	0.0	10385.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	3.8
10°-20°	855.7	8.2
20°-30°	1114.7	10.7
30°-40°	1616.9	15.6
40°-50°	2333.1	22.5
50°-60°	2821.7	27.2
60°-70°	1150.0	11.1
70°-80°	103.3	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°	10385.3	100.0
0°-180°	10385.3	100.0

Coefficient of Utilization



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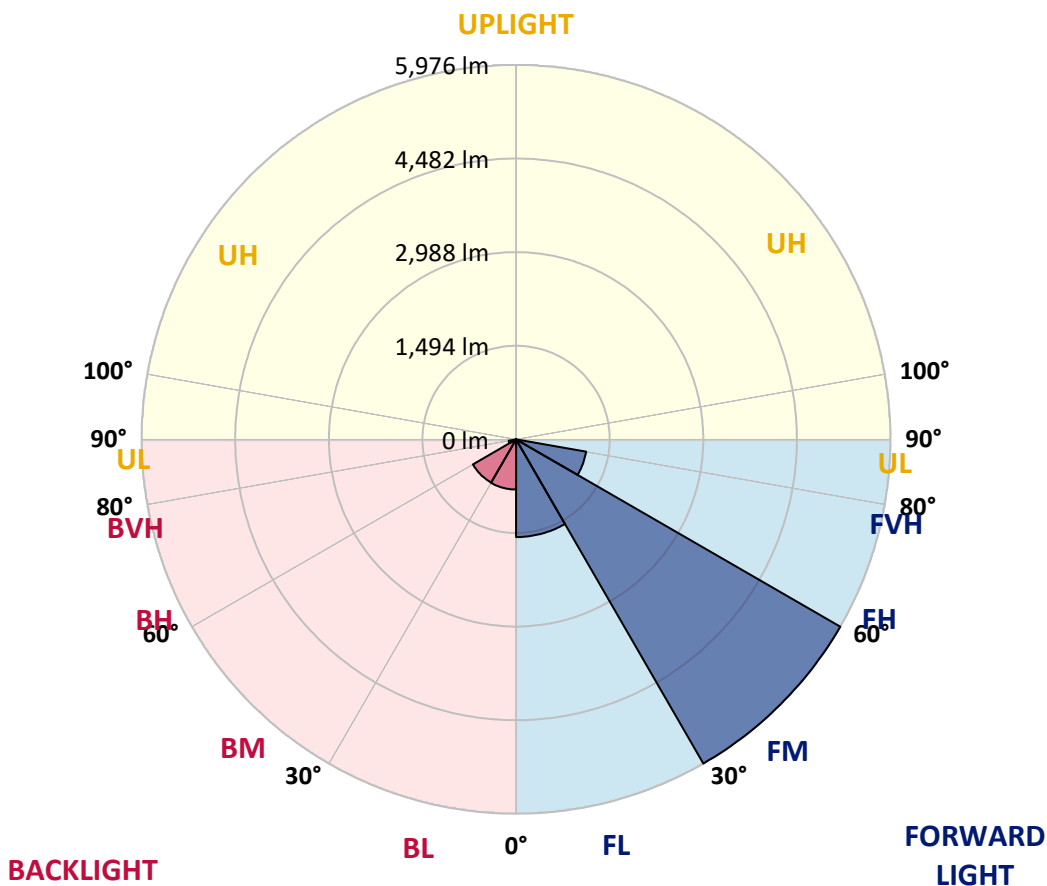
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.5	15.0			
FM (30°-60°)	5975.5	57.5			
FH (60°-80°)	1134.8	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	800.7	7.7	B2/1000		
BM (30°-60°)	796.3	7.7	B1/1000		
BH (60°-80°)	118.6	1.1	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°	53°	55°	65°	75°	85°
0°	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6
2.5°	4491.9	4502.1	4519.9	4542.9	4558.1	4565.8	4565.8	4587.4	4573.4	4561.9	4549.2
5°	4299.7	4309.9	4334.1	4371.0	4407.9	4434.7	4465.2	4488.1	4497.0	4497.0	4475.4
7.5°	4028.6	4042.6	4057.9	4108.8	4189.0	4248.8	4301.0	4334.1	4382.5	4397.7	4367.2
10°	3737.1	3751.1	3785.5	3855.5	3947.2	4036.3	4125.4	4167.4	4250.1	4293.4	4259.0
12.5°	3490.2	3496.6	3542.4	3626.4	3743.5	3865.7	3973.9	4017.2	4134.3	4199.2	4158.5
15°	3286.5	3290.4	3336.2	3429.1	3564.0	3714.2	3850.4	3895.0	4038.8	4136.8	4075.7
17.5°	3132.5	3133.8	3173.3	3273.8	3415.1	3581.8	3743.5	3798.2	3984.1	4102.4	4010.8
20°	3054.9	3051.1	3079.1	3166.9	3300.5	3467.3	3658.2	3725.7	3953.5	4097.4	3961.2
22.5°	3056.1	3047.2	3058.7	3121.1	3234.4	3390.9	3604.8	3681.1	3956.1	4119.0	3919.2
25°	3128.7	3116.0	3118.5	3151.6	3231.8	3374.4	3612.4	3693.9	4007.0	4191.5	3903.9
27.5°	3250.9	3236.9	3236.9	3253.4	3296.7	3426.6	3707.9	3800.8	4143.2	4332.8	3935.7
30°	3408.7	3394.7	3389.6	3406.2	3441.8	3561.5	3920.4	4017.2	4376.1	4564.5	4037.5
32.5°	3589.5	3572.9	3581.8	3604.8	3639.1	3804.6	4194.1	4322.7	4667.6	4876.3	4220.8
35°	3780.4	3766.4	3807.1	3856.8	3910.2	4141.9	4572.1	4684.1	5025.3	5264.6	4500.9
37.5°	3962.4	3956.1	4041.3	4145.7	4256.5	4546.7	4956.5	5043.1	5332.0	5687.2	4843.3
40°	4144.4	4143.2	4289.6	4472.8	4649.8	4950.2	5248.0	5319.3	5519.1	6015.6	5171.7
42.5°	4348.1	4348.1	4550.5	4794.9	5030.4	5291.3	5461.9	5493.7	5603.2	6205.2	5418.6
45°	4542.9	4554.3	4788.5	5072.4	5351.1	5557.3	5609.5	5612.1	5637.5	6317.2	5623.5
47.5°	4696.9	4707.1	4987.1	5314.2	5614.6	5759.7	5767.4	5755.9	5727.9	6424.2	5781.4
50°	4821.6	4836.9	5129.6	5475.9	5795.4	5954.5	6013.0	6001.6	5930.3	6538.7	5892.1
52.5°	4882.7	4904.3	5179.3	5556.1	5996.5	6288.0	6450.9	6477.6	6233.2	6602.4	5997.7
55°	4393.9	4425.8	4679.1	5194.6	6108.5	6803.5	7059.3	7054.2	6561.6	6792.0	6254.9
57.5°	3318.4	3315.8	3525.8	4089.7	5217.5	6832.7	7433.5	7423.3	6868.4	7012.2	6518.3
60°	2259.3	2244.1	2300.1	2572.5	3648.0	5566.2	6765.3	6902.7	6650.7	6477.6	5534.4
62.5°	1859.7	1845.7	1827.8	1752.7	2095.1	3467.3	4674.0	4882.7	4849.6	4502.1	3471.1
65°	1522.3	1533.8	1583.4	1551.6	1457.4	1778.2	2426.1	2549.5	2330.6	1961.5	1213.0
67.5°	1122.7	1127.8	1192.7	1360.7	1309.8	1183.8	1141.8	1162.1	681.0	313.1	202.4
70°	663.2	667.0	726.8	952.1	1062.8	908.8	771.4	759.9	269.8	84.0	91.6
72.5°	375.5	367.9	379.3	453.1	579.2	482.4	397.1	361.5	81.5	47.1	47.1
75°	178.2	173.1	148.9	140.0	127.3	81.5	50.9	43.3	20.4	19.1	19.1
77.5°	1.3	3.8	2.5	3.8	3.8	2.5	1.3	1.3	3.8	3.8	5.1
80°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6	4555.6
2.5°	4526.3	4488.1	4479.2	4476.7	4441.0	4402.8	4363.4	4348.1	4325.2	4311.2	4322.7
5°	4441.0	4386.3	4337.9	4293.4	4214.5	4127.9	4052.8	4004.4	3958.6	3928.1	3935.7
7.5°	4320.1	4248.8	4138.1	4024.8	3879.7	3749.9	3604.8	3515.7	3432.9	3387.1	3408.7
10°	4191.5	4097.4	3920.4	3728.2	3500.4	3296.7	3089.2	2920.0	2821.9	2729.0	2739.2
12.5°	4065.5	3940.8	3676.0	3384.5	3096.9	2796.5	2483.4	2249.2	2088.8	1972.9	1955.1
15°	3948.4	3788.0	3438.0	3053.6	2661.6	2261.9	1862.2	1527.4	1341.6	1227.0	1219.4
17.5°	3844.1	3645.5	3191.1	2707.4	2216.1	1704.4	1244.9	994.1	887.2	837.5	832.5
20°	3743.5	3501.7	2939.0	2356.1	1729.8	1196.5	859.2	743.4	709.0	688.6	691.2
22.5°	3646.8	3345.1	2674.3	1966.6	1297.0	840.1	665.7	621.2	617.3	619.9	621.2
25°	3565.3	3201.3	2401.9	1591.1	925.4	640.3	556.2	543.5	555.0	571.5	574.1
27.5°	3523.3	3084.2	2135.9	1213.0	669.5	520.6	482.4	487.5	507.9	525.7	528.2
30°	3534.7	2996.3	1860.9	879.5	515.5	439.1	426.4	436.6	457.0	473.5	476.1
32.5°	3616.2	2951.8	1579.6	640.3	423.9	383.1	378.0	385.7	403.5	416.2	417.5
35°	3777.9	2962.0	1312.3	490.1	364.0	341.1	339.9	344.9	353.9	362.8	364.0
37.5°	4015.9	3044.7	1048.8	407.3	329.7	313.1	308.0	308.0	314.4	318.2	320.8
40°	4271.7	3169.4	840.1	360.2	305.5	287.7	277.5	273.7	278.8	283.8	285.1
42.5°	4483.0	3294.2	682.3	327.1	286.4	262.2	249.5	246.9	253.3	262.2	264.8
45°	4644.7	3390.9	569.0	300.4	264.8	238.0	224.0	224.0	235.5	250.8	253.3
47.5°	4792.3	3468.6	485.0	276.2	244.4	216.4	202.4	204.9	224.0	244.4	248.2
50°	4892.9	3530.9	422.6	254.6	227.8	198.6	185.8	190.9	213.8	238.0	241.8
52.5°	5001.1	3607.3	381.9	235.5	212.6	184.6	173.1	176.9	202.4	229.1	234.2
55°	5300.2	3863.1	380.6	210.0	185.8	165.5	160.4	161.7	187.1	217.7	224.0
57.5°	5544.6	4088.4	406.0	176.9	155.3	145.1	142.6	143.8	166.7	201.1	208.7
60°	4587.4	3177.1	336.0	146.4	129.8	127.3	123.5	126.0	147.7	178.2	184.6
62.5°	2715.0	1816.4	160.4	112.0	110.7	108.2	104.4	109.5	129.8	156.6	160.4
65°	927.9	538.4	101.8	91.6	94.2	90.4	86.6	91.6	109.5	124.7	126.0
67.5°	178.2	142.6	81.5	76.4	77.6	70.0	68.7	73.8	84.0	86.6	85.3
70°	92.9	82.7	62.4	62.4	59.8	49.6	49.6	54.7	54.7	50.9	49.6
72.5°	48.4	45.8	40.7	45.8	38.2	30.5	30.5	33.1	30.5	25.5	25.5
75°	19.1	19.1	17.8	22.9	16.5	14.0	12.7	15.3	11.5	8.9	8.9
77.5°	5.1	5.1	5.1	6.4	3.8	3.8	2.5	2.5	1.3	0.0	0.0
80°	0.0	1.3	0.0	1.3	0.0	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)