

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: P636757

Luminaire Tested: GWS-SA4B-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10901.3 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

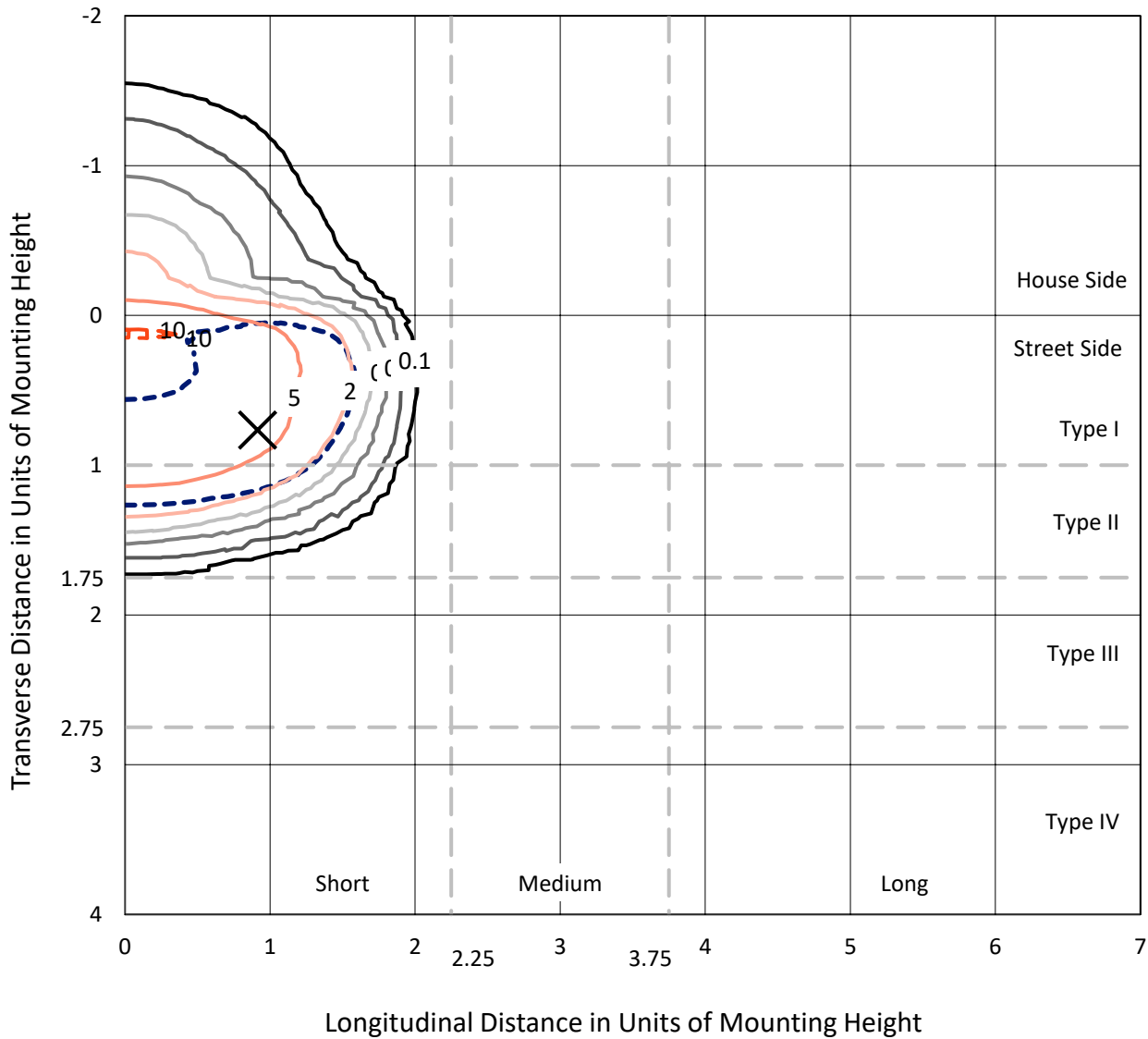
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

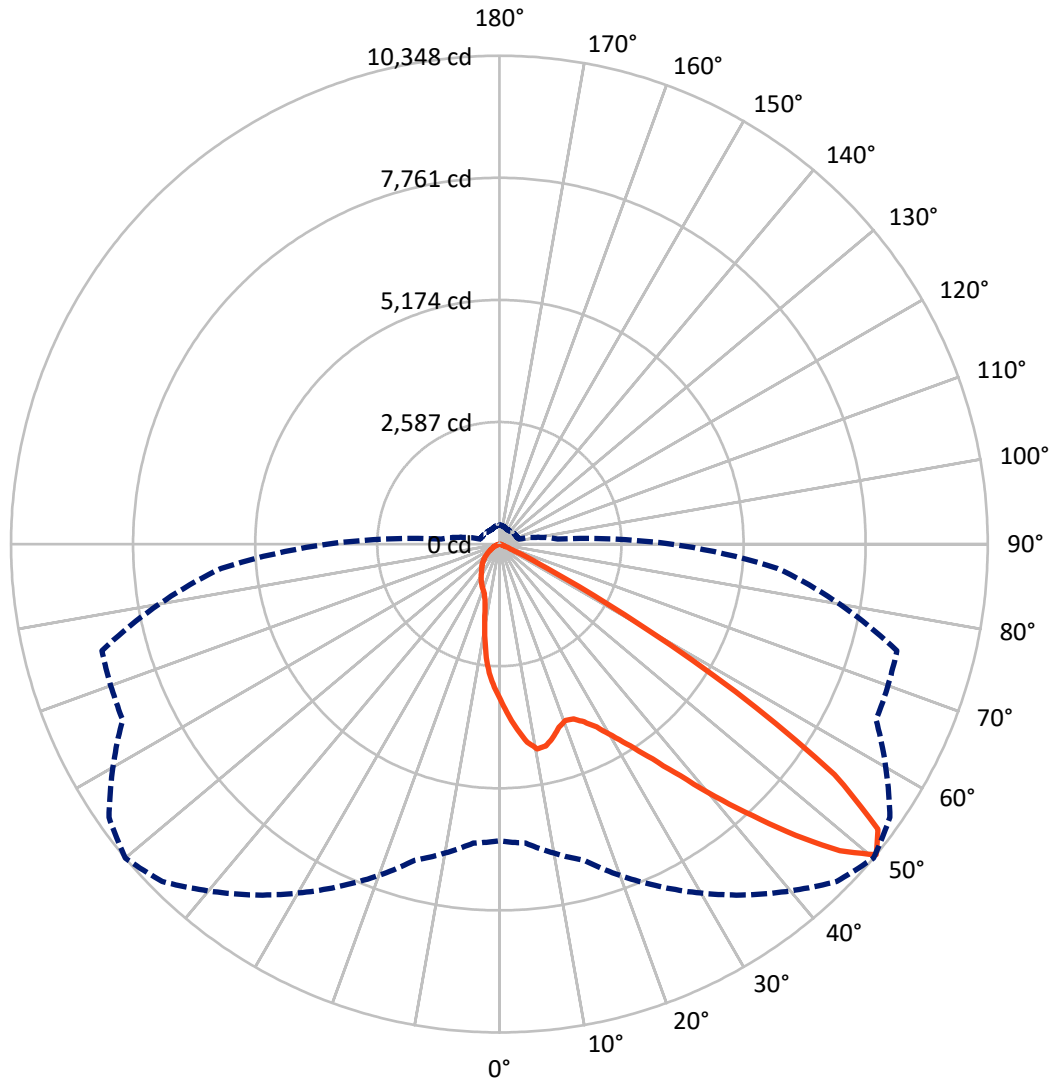
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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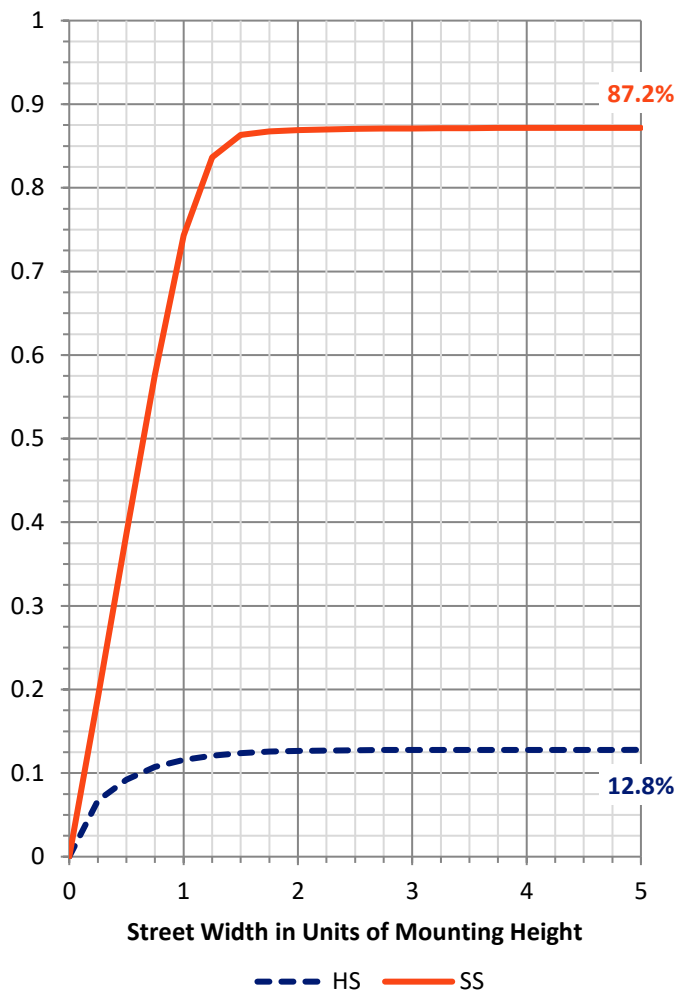
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1400.7	0.0	1400.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9500.7	0.0	9500.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	10901.3	0.0	10901.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	2.8
10°-20°	790.5	7.3
20°-30°	1304.6	12.0
30°-40°	2152.8	19.7
40°-50°	3406.2	31.2
50°-60°	2578.9	23.7
60°-70°	322.8	3.0
70°-80°	36.5	0.3
80°-90°	2.8	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°	10901.3	100.0
0°-180°	10901.3	100.0

Coefficient of Utilization



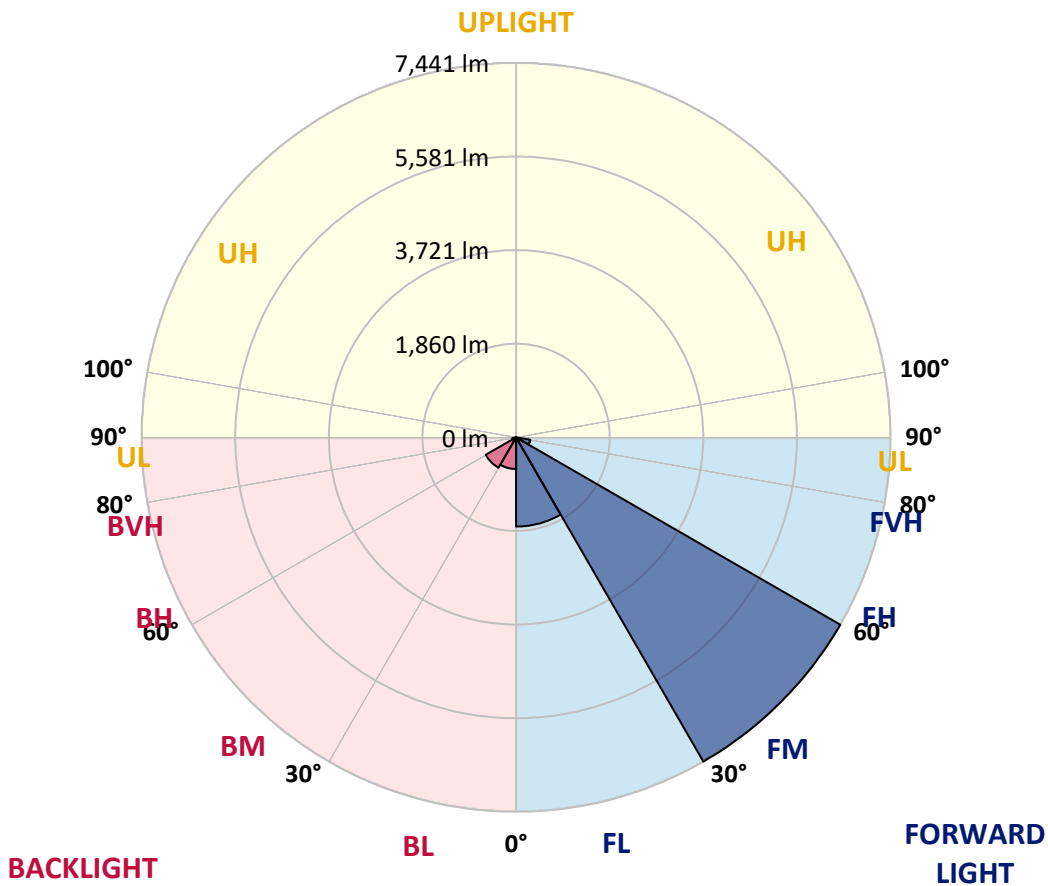
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.7	16.3			
FM (30°-60°)	7441.3	68.3			
FH (60°-80°)	285.4	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	628.7	5.8	B2/1000		
BM (30°-60°)	696.6	6.4	B1/1000		
BH (60°-80°)	73.9	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7
2.5°	3763.4	3793.4	3785.1	3745.7	3703.2	3673.1	3626.4	3611.9	3506.0	3432.4	3354.5
5°	4217.8	4227.2	4216.8	4169.1	4094.3	4022.8	3946.0	3901.4	3723.9	3564.1	3401.2
7.5°	4326.8	4315.4	4335.1	4358.9	4348.6	4317.4	4236.5	4187.7	3976.1	3715.6	3468.7
10°	3986.4	3960.5	4034.2	4157.6	4287.3	4433.6	4412.9	4417.0	4222.0	3906.5	3556.9
12.5°	3535.1	3524.7	3579.7	3722.9	3977.1	4309.1	4389.0	4522.9	4447.1	4113.0	3657.5
15°	3336.9	3342.1	3375.3	3465.6	3648.2	4061.1	4253.1	4494.9	4648.4	4313.3	3768.5
17.5°	3367.0	3385.7	3384.6	3414.7	3525.7	3856.7	4080.9	4406.7	4804.1	4543.6	3896.2
20°	3571.4	3590.1	3562.1	3539.2	3576.6	3804.9	3990.6	4317.4	4908.9	4776.0	4031.1
22.5°	3877.5	3899.3	3832.9	3767.5	3743.6	3889.9	4024.8	4281.1	4988.8	4988.8	4151.4
25°	4247.9	4278.0	4175.3	4059.1	3992.7	4069.4	4171.1	4363.1	5070.7	5179.7	4233.4
27.5°	4661.9	4662.9	4574.8	4444.0	4319.5	4328.8	4390.1	4547.8	5161.0	5385.1	4297.7
30°	5127.8	5130.9	5013.7	4857.0	4700.3	4657.8	4709.6	4829.0	5348.8	5643.5	4386.9
32.5°	5729.6	5744.1	5576.0	5345.7	5142.3	5062.4	5092.5	5218.1	5647.6	5967.2	4520.8
35°	6543.1	6558.6	6310.6	6006.6	5682.9	5562.5	5592.6	5719.2	6080.3	6426.9	4734.5
37.5°	7346.2	7366.9	7115.8	6832.6	6388.5	6189.2	6220.4	6340.7	6729.8	7061.9	5076.9
40°	7901.3	7929.3	7851.5	7660.6	7248.6	6987.2	7024.5	7068.1	7444.7	7821.4	5521.0
42.5°	8193.9	8233.3	8266.5	8364.0	8147.2	7928.3	7865.0	7868.1	8172.1	8595.4	5982.8
45°	8211.5	8249.9	8420.1	8796.7	8961.7	8916.0	8800.9	8723.0	8727.2	9111.1	6271.2
47.5°	7640.8	7712.4	8031.0	8768.7	9389.2	9767.9	9709.8	9525.1	8960.7	9145.4	6240.1
50°	6288.9	6359.4	6938.4	7999.8	9077.9	10108.2	10347.9	10099.9	8808.1	8718.9	5919.5
52.5°	4567.5	4574.8	4950.4	6190.3	7816.2	9480.5	10044.9	10021.1	8575.7	8202.2	5481.6
55°	2169.6	2143.7	2566.0	3493.6	5405.9	7667.8	8619.3	8889.1	8245.8	7828.6	5142.3
57.5°	631.9	644.3	832.2	1363.4	2704.0	4900.6	5902.9	6405.1	6768.2	6436.2	3988.5
60°	283.3	284.3	316.5	415.0	900.6	2279.6	3051.6	3673.1	4046.6	3749.9	1978.7
62.5°	205.4	206.5	218.9	234.5	306.1	772.0	1144.5	1525.3	1553.3	1016.8	501.2
65°	171.2	171.2	173.3	173.3	183.7	276.0	347.6	448.2	377.7	280.2	196.1
67.5°	138.0	139.0	141.1	141.1	138.0	138.0	149.4	163.9	175.4	216.9	180.5
70°	107.9	106.9	106.9	107.9	104.8	89.2	96.5	110.0	120.4	169.1	156.7
72.5°	84.0	85.1	84.0	79.9	72.6	52.9	57.1	71.6	76.8	105.8	105.8
75°	63.3	64.3	60.2	45.7	30.1	16.6	21.8	35.3	44.6	51.9	38.4
77.5°	8.3	8.3	6.2	6.2	5.2	6.2	6.2	8.3	12.5	12.5	9.3
80°	1.0	1.0	1.0	2.1	3.1	4.2	4.2	4.2	4.2	5.2	5.2
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	3.1	4.2	4.2	4.2
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°	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7	3302.7
2.5°	3307.8	3247.7	3175.0	3125.2	3054.7	3008.0	2941.6	2897.0	2858.6	2828.5	2845.1
5°	3308.9	3213.4	3065.1	2938.5	2800.5	2673.9	2538.0	2431.1	2334.6	2291.0	2314.9
7.5°	3329.6	3192.7	2965.4	2740.3	2475.7	2214.2	1969.4	1770.1	1671.6	1624.9	1639.4
10°	3370.1	3183.3	2854.4	2480.9	2051.3	1694.4	1456.8	1321.9	1266.9	1237.8	1243.0
12.5°	3407.5	3177.1	2710.2	2139.5	1618.6	1314.6	1191.2	1172.5	1183.9	1184.9	1183.9
15°	3458.3	3165.7	2531.7	1788.8	1294.9	1136.2	1139.3	1166.3	1193.2	1201.5	1199.5
17.5°	3512.3	3148.1	2301.4	1452.6	1098.8	1084.3	1120.6	1156.9	1183.9	1188.0	1189.1
20°	3568.3	3111.7	2038.9	1186.0	1007.5	1044.9	1085.3	1112.3	1132.0	1138.2	1140.3
22.5°	3594.2	3035.0	1735.9	995.1	946.3	996.1	1026.2	1061.5	1067.7	1044.9	1049.0
25°	3580.7	2905.3	1440.2	866.4	885.1	934.9	979.5	961.8	935.9	919.3	924.5
27.5°	3538.2	2733.0	1150.7	772.0	819.7	883.0	888.2	868.5	864.3	850.8	855.0
30°	3492.5	2534.8	925.5	696.2	753.3	819.7	804.1	811.4	812.4	796.9	802.1
32.5°	3464.5	2327.3	736.7	645.4	710.8	723.2	754.3	768.9	769.9	733.6	739.8
35°	3473.9	2122.9	623.6	603.9	671.3	668.2	711.8	720.1	659.9	610.1	615.3
37.5°	3549.6	1934.1	559.3	571.7	602.8	626.7	659.9	604.9	591.4	568.6	571.7
40°	3690.7	1773.2	520.9	552.0	556.2	594.5	543.7	551.0	552.0	537.5	540.6
42.5°	3855.7	1639.4	498.0	540.6	530.2	536.4	485.6	500.1	515.7	509.5	510.5
45°	3938.7	1508.7	478.3	501.2	504.3	445.1	433.7	449.3	469.0	472.1	473.1
47.5°	3865.0	1384.1	457.6	444.1	464.8	405.7	392.2	397.4	420.2	432.7	434.8
50°	3639.9	1241.0	426.5	393.2	381.8	364.2	351.7	352.8	378.7	400.5	404.7
52.5°	3323.4	1091.5	375.6	333.1	307.1	320.6	323.7	317.5	341.4	363.2	367.3
55°	3016.3	904.8	297.8	270.8	246.9	276.0	284.3	276.0	283.3	297.8	298.8
57.5°	2124.0	511.5	228.3	224.1	204.4	236.6	250.1	237.6	225.2	234.5	236.6
60°	984.7	267.7	175.4	175.4	170.2	203.4	226.2	208.6	184.7	188.8	192.0
62.5°	308.2	169.1	128.7	121.4	139.0	173.3	192.0	174.3	146.3	146.3	150.5
65°	174.3	145.3	101.7	93.4	113.1	139.0	150.5	131.8	106.9	104.8	104.8
67.5°	161.9	138.0	90.3	75.7	79.9	89.2	93.4	80.9	73.7	72.6	73.7
70°	133.8	115.2	72.6	51.9	48.8	47.7	49.8	46.7	44.6	45.7	48.8
72.5°	83.0	69.5	45.7	31.1	27.0	25.9	25.9	25.9	24.9	24.9	24.9
75°	30.1	25.9	20.8	15.6	13.5	12.5	12.5	13.5	12.5	11.4	10.4
77.5°	9.3	8.3	8.3	8.3	7.3	6.2	5.2	5.2	4.2	3.1	3.1
80°	5.2	5.2	5.2	5.2	4.2	4.2	3.1	2.1	1.0	1.0	0.0
82.5°	5.2	5.2	5.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	1.0	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)