

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: P636081

Luminaire Tested: GWS-SA3F-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-722-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

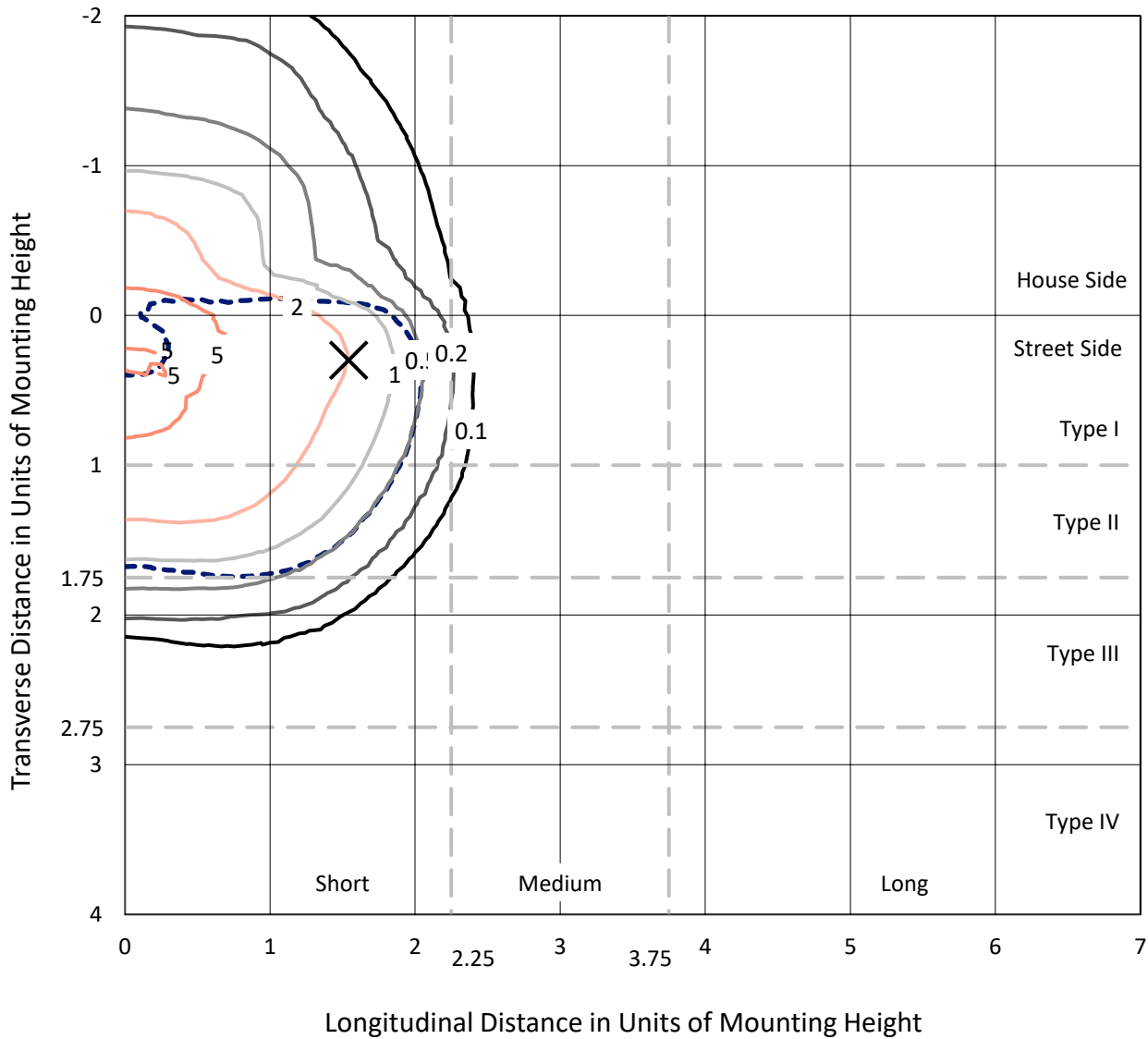
Lumens per Lamp: N/A  
Luminaire Lumens: 15790.1 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

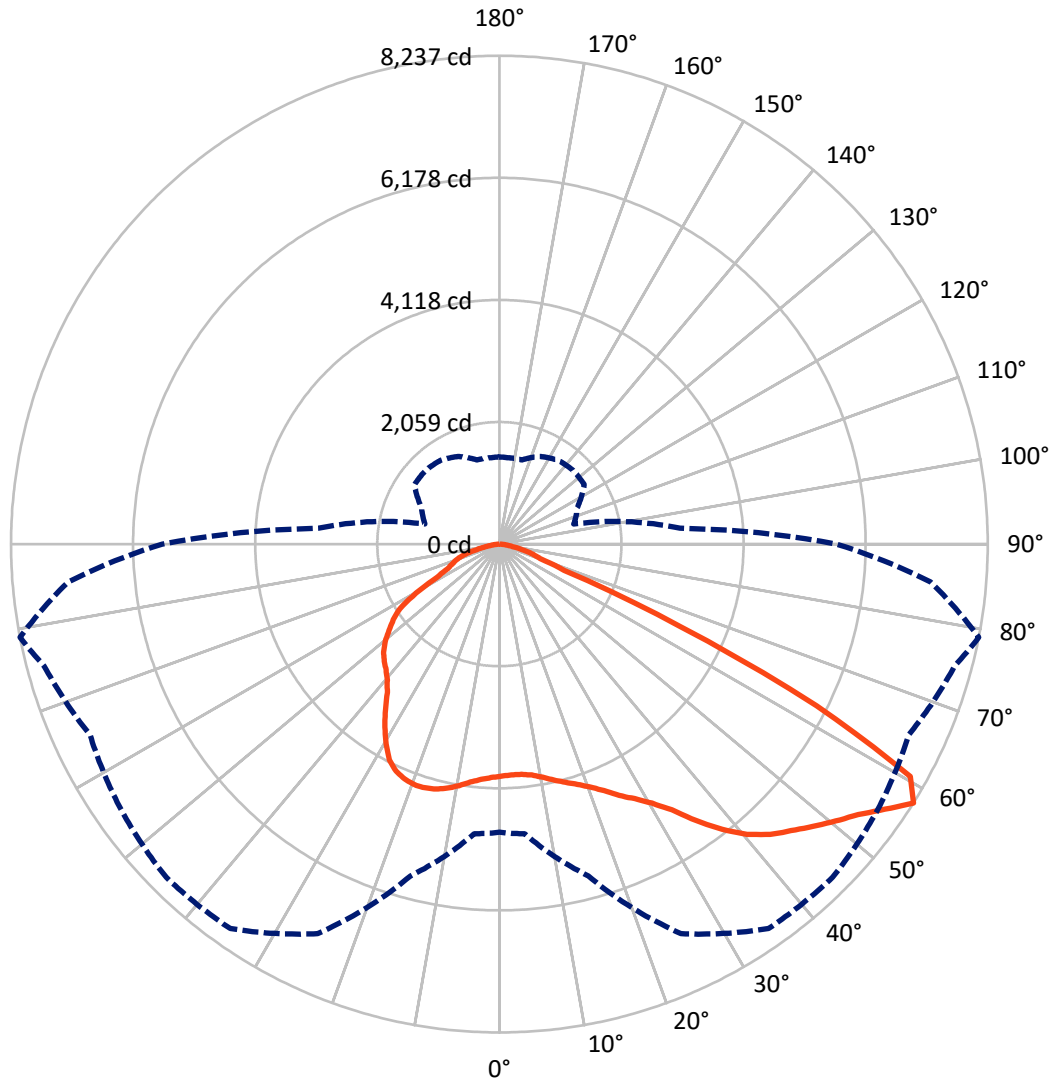
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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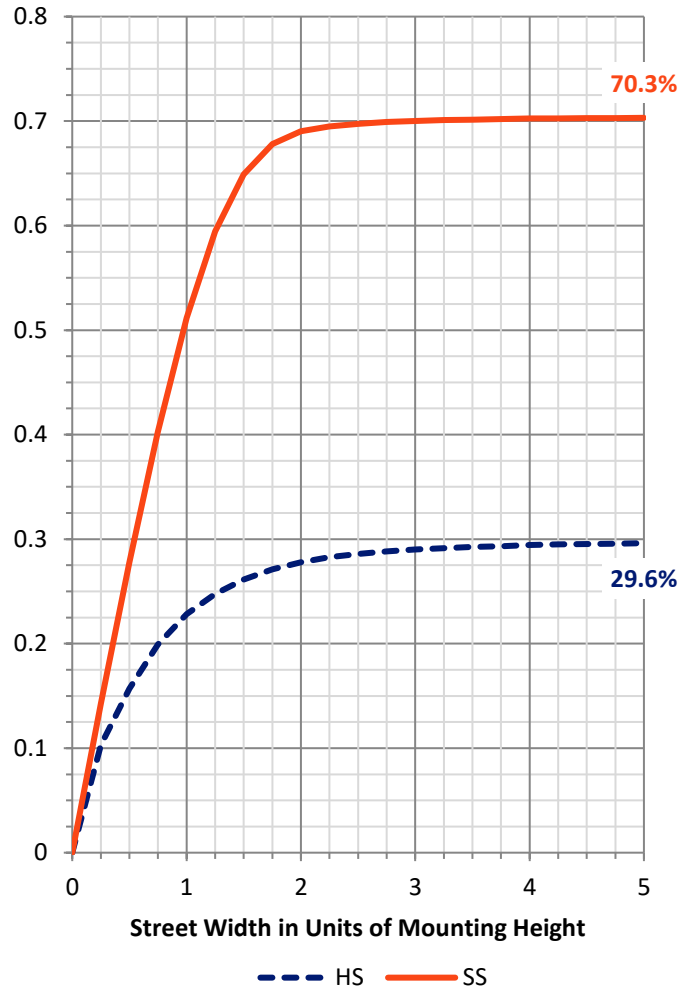
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4693.7	0.0	4693.7
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	11096.4	0.0	11096.4
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	15790.1	0.0	15790.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.4	2.3
10°-20°	1007.1	6.4
20°-30°	1707.1	10.8
30°-40°	2612.9	16.5
40°-50°	3484.0	22.1
50°-60°	4023.8	25.5
60°-70°	2090.9	13.2
70°-80°	444.5	2.8
80°-90°	57.6	0.4
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°	15790.1	100.0
0°-180°	15790.1	100.0

**Coefficient of Utilization**



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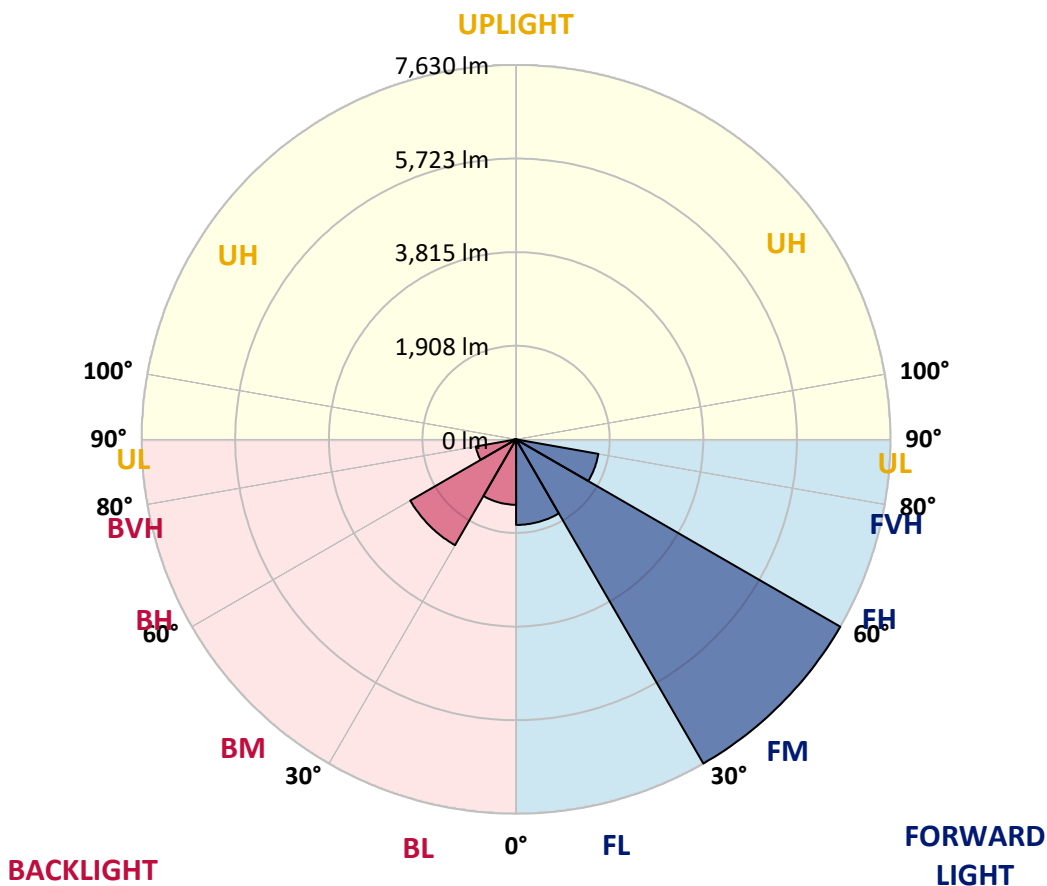
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.6	11.0			
FM (30°-60°)	7630.2	48.3			
FH (60°-80°)	1702.6	10.8			G1/1800
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	1332.9	8.4	B3/2500		
BM (30°-60°)	2490.4	15.8	B2/2500		
BH (60°-80°)	832.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2
2.5°	3735.0	3727.2	3729.8	3740.2	3778.9	3807.3	3837.0	3864.1	3889.9	3897.7	3904.1
5°	3602.0	3587.8	3591.7	3608.5	3653.7	3701.4	3754.4	3818.9	3880.9	3901.5	3928.6
7.5°	3507.8	3505.2	3511.6	3537.5	3585.2	3630.4	3698.8	3790.5	3897.7	3932.5	3980.3
10°	3382.5	3377.4	3403.2	3456.1	3534.9	3607.2	3688.5	3797.0	3946.7	3998.4	4072.0
12.5°	3283.1	3280.5	3307.7	3381.2	3481.9	3596.8	3709.2	3830.5	4012.6	4083.6	4173.9
15°	3341.2	3329.6	3330.9	3382.5	3472.9	3608.5	3760.8	3891.2	4078.4	4168.8	4285.0
17.5°	3510.3	3489.7	3474.2	3483.2	3534.9	3675.6	3839.6	3972.5	4154.6	4260.4	4402.5
20°	3744.0	3732.4	3689.8	3661.4	3673.0	3797.0	3963.5	4087.4	4254.0	4372.8	4525.1
22.5°	4057.7	4029.3	3971.2	3926.1	3891.2	3988.0	4141.7	4248.8	4392.1	4516.1	4674.9
25°	4446.4	4405.0	4313.4	4242.4	4167.5	4266.9	4403.7	4485.1	4581.9	4696.8	4847.9
27.5°	4842.7	4807.8	4705.9	4610.3	4517.4	4579.3	4742.0	4788.5	4778.2	4862.1	4991.2
30°	5264.9	5221.0	5124.2	5020.9	4900.8	4940.8	5086.7	5109.9	5000.2	5069.9	5157.7
32.5°	5710.3	5667.7	5583.8	5463.7	5328.1	5343.6	5383.7	5405.6	5301.0	5341.0	5408.2
35°	6163.4	6123.4	6038.2	5919.4	5820.0	5725.8	5625.1	5712.9	5652.2	5729.6	5724.5
37.5°	6577.9	6537.8	6484.9	6393.2	6222.8	6036.9	5804.5	5913.0	6007.2	6105.3	6088.6
40°	6858.0	6830.9	6843.8	6829.6	6610.1	6242.2	5892.3	6011.1	6268.0	6435.9	6426.8
42.5°	7099.4	7072.3	7147.2	7201.4	6943.2	6432.0	5934.9	6048.5	6434.6	6696.6	6683.7
45°	7206.6	7198.9	7322.8	7494.5	7247.9	6633.4	6044.7	6126.0	6561.1	6896.8	6847.7
47.5°	7078.8	7105.9	7349.9	7640.4	7501.0	6872.2	6269.3	6290.0	6726.3	7113.6	6975.5
50°	6824.5	6883.8	7213.1	7644.3	7685.6	7142.1	6580.4	6528.8	6948.4	7344.7	7042.6
52.5°	6453.9	6515.9	7053.0	7614.6	7791.4	7454.5	6994.9	6921.3	7228.6	7575.8	7054.3
55°	5603.1	5687.0	6686.3	7547.4	7894.7	7738.5	7462.2	7312.5	7590.0	7893.4	7169.2
57.5°	4860.8	4904.7	5792.9	7249.2	7915.4	7947.7	7795.3	7617.2	7949.0	8236.9	7298.3
60°	3567.2	3577.5	4376.6	5998.2	7281.5	7826.3	7768.2	7503.5	7778.5	7961.9	6707.0
62.5°	2015.3	2016.6	2654.4	4003.5	5439.2	6379.0	6415.2	6181.5	5950.4	6004.6	4668.4
65°	756.6	827.6	1212.3	1967.5	3135.9	3766.0	3915.7	3970.0	3585.2	3346.4	2503.3
67.5°	506.1	522.9	707.5	1012.2	1395.6	1611.2	1802.3	1807.5	1322.0	1178.7	986.4
70°	386.0	402.8	556.4	724.3	707.5	653.3	706.2	686.8	710.1	729.4	750.1
72.5°	287.9	304.7	431.2	511.3	424.8	418.3	473.8	526.7	575.8	596.5	628.7
75°	191.1	204.0	290.5	273.7	235.0	277.6	346.0	398.9	427.3	451.9	476.4
77.5°	121.4	130.4	154.9	125.2	130.4	162.7	201.4	249.2	276.3	300.8	313.7
80°	55.5	54.2	52.9	59.4	73.6	95.5	121.4	149.8	170.4	180.7	188.5
82.5°	21.9	24.5	27.1	32.3	40.0	51.6	68.4	87.8	104.6	107.2	113.6
85°	9.0	10.3	11.6	14.2	18.1	23.2	28.4	40.0	50.4	54.2	58.1
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	3.9	6.5	11.6	12.9	14.2
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°	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2	3913.2
2.5°	3939.0	3922.2	3950.6	3970.0	3988.0	3968.7	3962.2	3945.4	3942.8	3942.8	3951.9
5°	3975.1	3963.5	3993.2	4004.8	4003.5	3960.9	3935.1	3901.5	3884.7	3884.7	3887.3
7.5°	4039.7	4033.2	4050.0	4031.9	3990.6	3904.1	3818.9	3747.9	3700.1	3675.6	3683.3
10°	4146.8	4139.1	4124.9	4057.7	3939.0	3759.5	3585.2	3456.1	3378.7	3334.8	3337.3
12.5°	4251.4	4238.5	4188.1	4039.7	3795.7	3510.3	3281.8	3137.2	3052.0	3000.4	2988.8
15°	4366.3	4332.7	4224.3	3946.7	3562.0	3205.7	2966.8	2810.6	2718.9	2688.0	2686.7
17.5°	4476.0	4416.7	4220.4	3781.5	3281.8	2886.8	2646.6	2549.8	2534.3	2548.5	2552.4
20°	4587.1	4491.5	4177.8	3553.0	2948.7	2569.2	2445.2	2485.3	2543.4	2582.1	2591.1
22.5°	4702.0	4553.5	4081.0	3258.6	2597.6	2354.9	2406.5	2494.3	2566.6	2618.2	2623.4
25°	4831.1	4611.6	3936.4	2898.4	2316.1	2295.5	2397.5	2490.4	2567.9	2627.3	2637.6
27.5°	4904.7	4612.9	3733.7	2527.9	2187.0	2272.2	2375.5	2463.3	2540.8	2605.3	2616.9
30°	4977.0	4578.0	3412.2	2227.0	2149.6	2245.1	2338.1	2419.4	2493.0	2556.3	2570.5
32.5°	5079.0	4545.8	3041.7	2054.0	2127.6	2219.3	2295.5	2367.8	2424.6	2453.0	2460.7
35°	5205.5	4504.4	2647.9	1979.2	2113.4	2198.6	2265.8	2304.5	2230.9	2215.4	2232.2
37.5°	5382.4	4465.7	2255.5	1946.9	2104.4	2190.9	2250.3	2150.9	2060.5	2024.4	2037.3
40°	5573.4	4443.8	1989.5	1921.1	2108.3	2198.6	2185.7	2038.6	1908.2	1832.0	1829.4
42.5°	5736.1	4410.2	1819.1	1904.3	2118.6	2228.3	2097.9	1939.1	1745.5	1700.3	1701.6
45°	5845.8	4325.0	1728.7	1886.2	2127.6	2234.8	2056.6	1802.3	1664.2	1635.8	1634.5
47.5°	5891.0	4170.1	1670.6	1857.8	2126.3	2181.9	1972.7	1745.5	1607.3	1599.6	1604.8
50°	5861.3	3915.7	1611.2	1802.3	2095.4	2126.3	1875.9	1695.1	1568.6	1611.2	1642.2
52.5°	5751.6	3586.5	1540.2	1726.1	2039.8	2063.1	1826.8	1664.2	1540.2	1597.0	1621.6
55°	5723.2	3319.3	1449.8	1626.7	1957.2	1950.8	1775.2	1648.7	1520.8	1498.9	1502.8
57.5°	5685.8	3058.5	1300.1	1448.6	1748.1	1758.4	1726.1	1630.6	1470.5	1464.0	1470.5
60°	4939.5	2344.5	1159.4	1249.7	1435.6	1491.2	1670.6	1597.0	1389.2	1362.1	1360.8
62.5°	3226.3	1420.1	1031.5	1089.6	1169.7	1234.2	1523.4	1500.2	1300.1	1283.3	1294.9
65°	1735.2	1012.2	938.6	973.4	1017.3	1066.4	1262.6	1336.2	1174.8	1115.5	1116.8
67.5°	886.9	861.1	868.9	893.4	927.0	951.5	1018.6	1083.2	1001.8	951.5	950.2
70°	759.1	779.8	791.4	805.6	827.6	823.7	830.1	841.8	835.3	810.8	809.5
72.5°	646.8	679.1	681.7	684.3	692.0	673.9	662.3	642.9	644.2	648.1	649.4
75°	491.9	522.9	530.6	526.7	534.5	511.3	495.8	476.4	453.2	449.3	451.9
77.5°	320.2	344.7	356.3	353.7	357.6	339.5	331.8	311.1	284.0	273.7	273.7
80°	193.7	207.9	216.9	219.5	223.4	210.4	197.5	179.5	167.8	156.2	156.2
82.5°	117.5	126.5	133.0	133.0	136.9	122.6	112.3	99.4	94.2	83.9	83.9
85°	59.4	65.8	68.4	67.1	64.6	52.9	49.1	42.6	40.0	34.9	34.9
87.5°	14.2	18.1	18.1	12.9	12.9	6.5	3.9	1.3	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)