

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: P637236

Luminaire Tested: GWS-SA4C-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637236  
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-SA4C-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

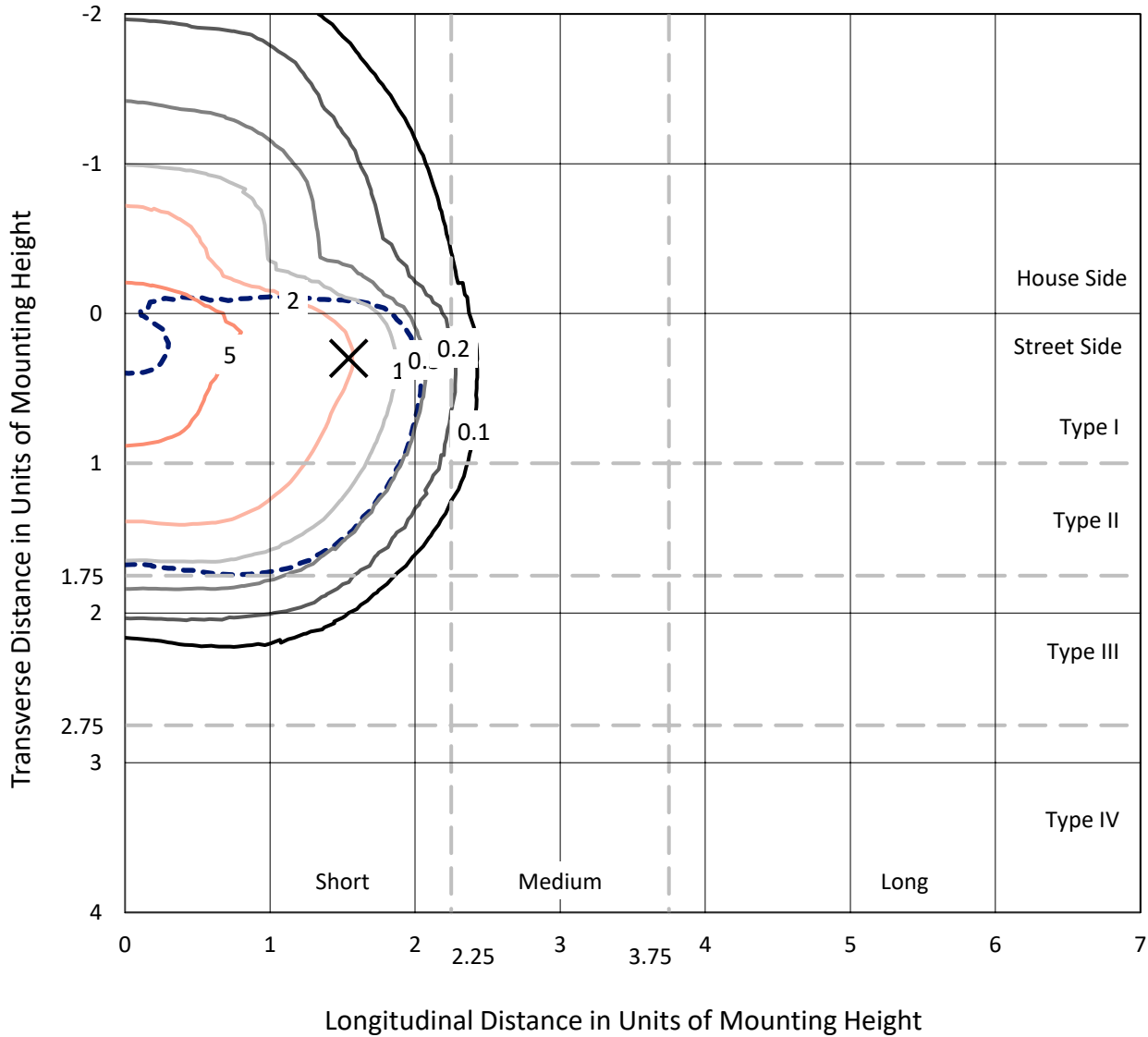
Lumens per Lamp: N/A  
Luminaire Lumens: 16785.6 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

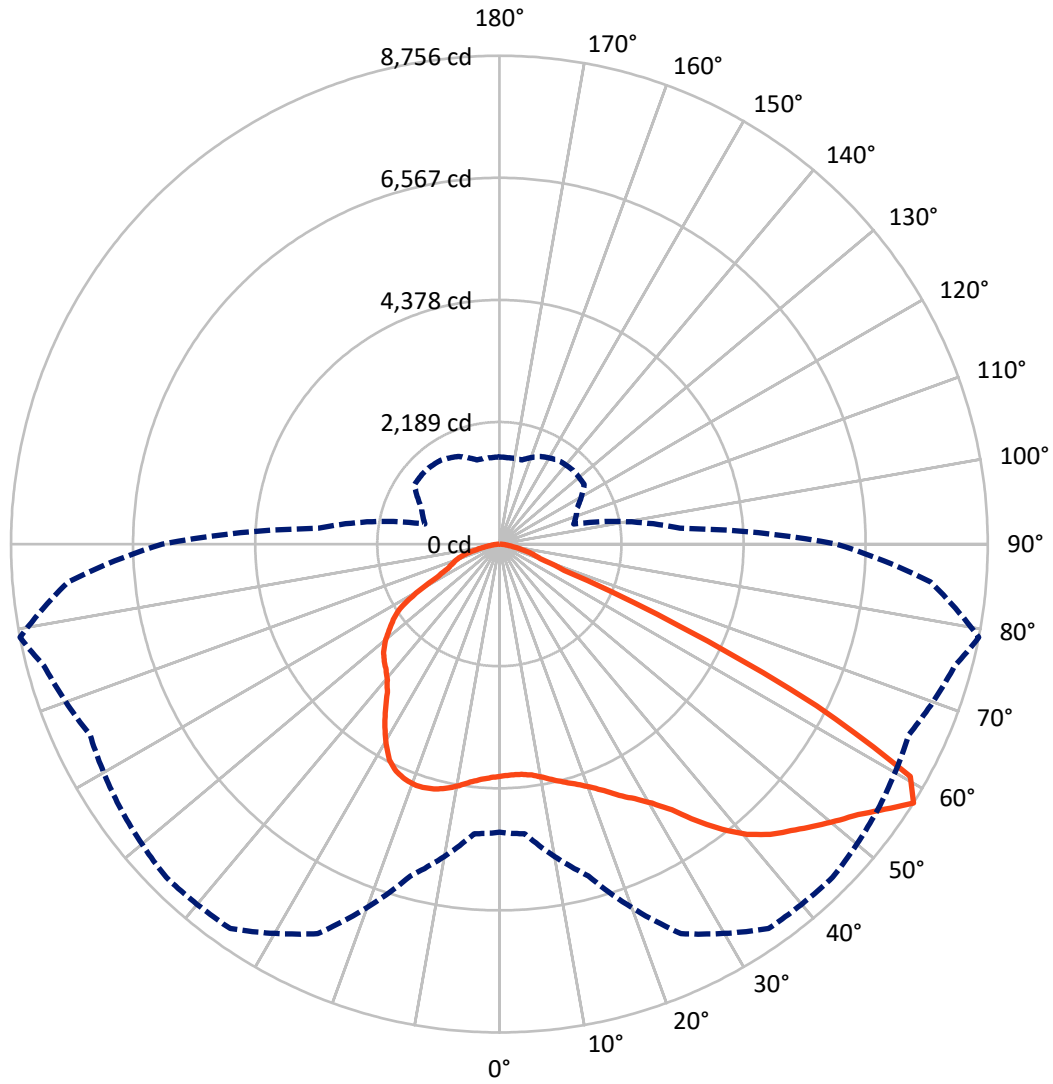
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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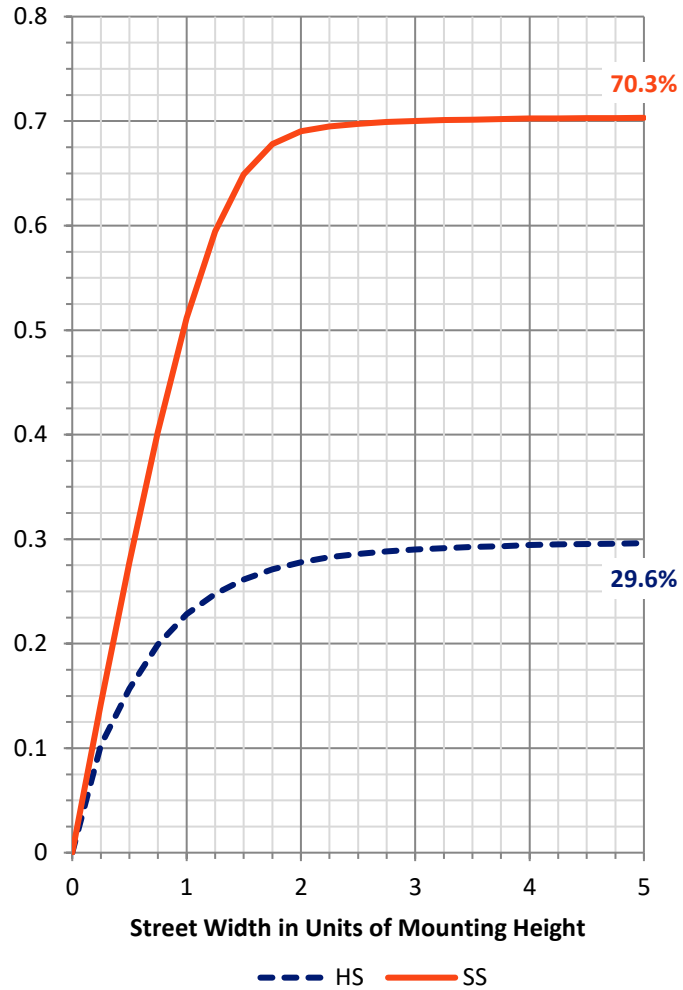
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4989.6	0.0	4989.6
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	11796.0	0.0	11796.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	16785.6	0.0	16785.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.2	2.3
10°-20°	1070.6	6.4
20°-30°	1814.7	10.8
30°-40°	2777.6	16.5
40°-50°	3703.7	22.1
50°-60°	4277.4	25.5
60°-70°	2222.7	13.2
70°-80°	472.5	2.8
80°-90°	61.2	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°	16785.6	100.0
0°-180°	16785.6	100.0

**Coefficient of Utilization**



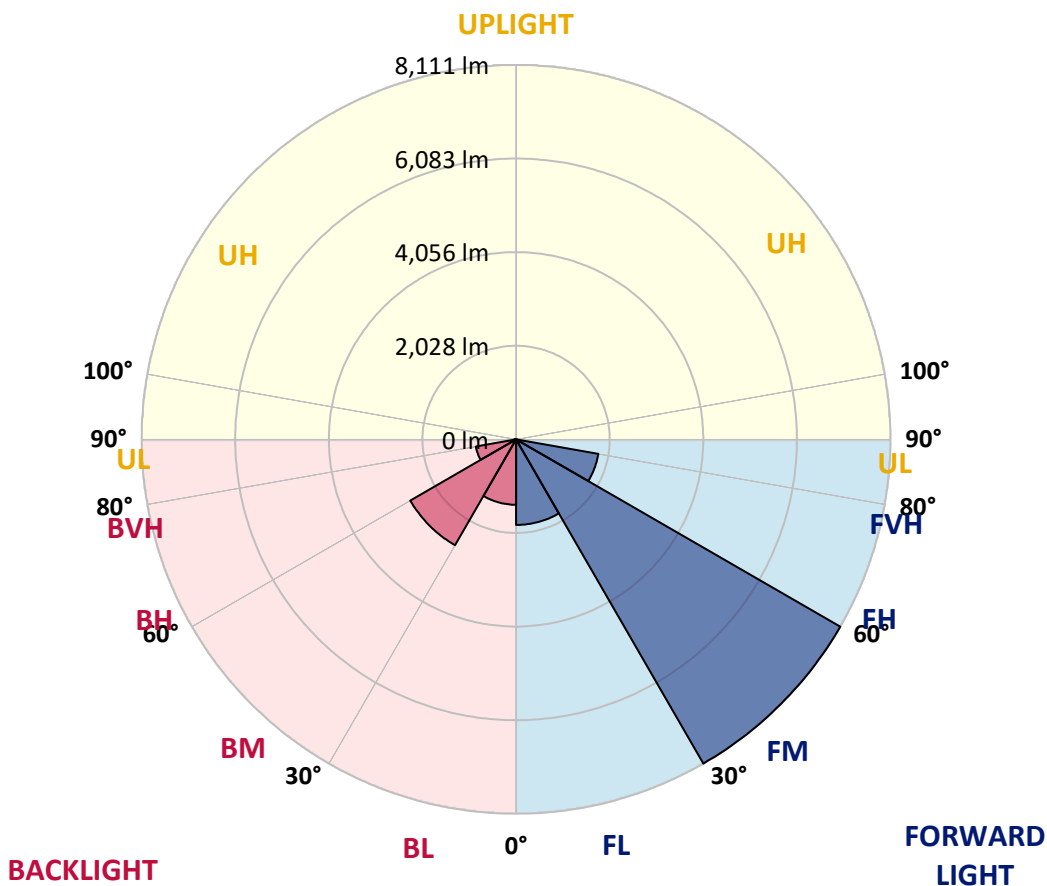
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.5	11.0			
FM (30°-60°)	8111.3	48.3			
FH (60°-80°)	1809.9	10.8			G2/5000
FVH (80°-90°)	21.3	0.1			G1/100
BL (0°-30°)	1417.0	8.4	B3/2500		
BM (30°-60°)	2647.4	15.8	B3/5000		
BH (60°-80°)	885.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.9	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°	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9
2.5°	3970.5	3962.2	3965.0	3976.0	4017.1	4047.3	4078.9	4107.7	4135.2	4143.4	4150.3
5°	3829.1	3814.0	3818.1	3836.0	3884.0	3934.8	3991.0	4059.7	4125.5	4147.5	4176.3
7.5°	3728.9	3726.2	3733.0	3760.5	3811.3	3859.3	3932.0	4029.5	4143.4	4180.4	4231.2
10°	3595.8	3590.3	3617.7	3674.0	3757.7	3834.6	3921.1	4036.3	4195.5	4250.4	4328.7
12.5°	3490.1	3487.4	3516.2	3594.4	3701.5	3823.6	3943.0	4072.0	4265.5	4341.0	4437.1
15°	3551.9	3539.5	3540.9	3595.8	3691.9	3836.0	3997.9	4136.5	4335.5	4431.6	4555.1
17.5°	3731.7	3709.7	3693.2	3702.8	3757.7	3907.3	4081.6	4223.0	4416.5	4529.0	4680.0
20°	3980.1	3967.7	3922.4	3892.2	3904.6	4036.3	4213.4	4345.1	4522.2	4648.4	4810.4
22.5°	4313.6	4283.4	4221.6	4173.6	4136.5	4239.5	4402.8	4516.7	4669.0	4800.8	4969.6
25°	4726.7	4682.8	4585.3	4509.8	4430.2	4535.9	4681.4	4767.8	4870.8	4992.9	5153.5
27.5°	5148.0	5111.0	5002.5	4901.0	4802.2	4868.0	5041.0	5090.4	5079.4	5168.6	5305.8
30°	5596.8	5550.1	5447.2	5337.4	5209.8	5252.3	5407.4	5432.1	5315.5	5389.6	5482.9
32.5°	6070.3	6025.0	5935.8	5808.2	5664.1	5680.5	5723.1	5746.4	5635.2	5677.8	5749.1
35°	6552.0	6509.5	6418.9	6292.6	6187.0	6086.8	5979.7	6073.0	6008.5	6090.9	6085.4
37.5°	6992.6	6950.0	6893.8	6796.3	6615.2	6417.5	6170.5	6285.8	6386.0	6490.3	6472.4
40°	7290.4	7261.6	7275.3	7260.2	7026.9	6635.7	6263.8	6390.1	6663.2	6841.6	6832.0
42.5°	7547.0	7518.2	7597.8	7655.5	7381.0	6837.5	6309.1	6429.9	6840.2	7118.8	7105.1
45°	7660.9	7652.7	7784.5	7967.0	7704.9	7051.6	6425.8	6512.2	6974.7	7331.6	7279.4
47.5°	7525.1	7553.9	7813.3	8122.1	7973.9	7305.5	6664.6	6686.5	7150.4	7562.1	7415.3
50°	7254.7	7317.8	7667.8	8126.2	8170.1	7592.3	6995.3	6940.4	7386.5	7807.8	7486.6
52.5°	6860.8	6926.7	7497.6	8094.6	8282.7	7924.5	7435.9	7357.6	7684.3	8053.5	7499.0
55°	5956.4	6045.6	7107.9	8023.3	8392.5	8226.4	7932.7	7773.5	8068.6	8391.1	7621.1
57.5°	5167.2	5213.9	6158.1	7706.2	8414.4	8448.7	8286.8	8097.4	8450.1	8756.2	7758.4
60°	3792.0	3803.0	4652.6	6376.3	7740.6	8319.7	8258.0	7976.6	8268.9	8463.8	7129.8
62.5°	2142.4	2143.7	2821.7	4255.9	5782.1	6781.2	6819.6	6571.2	6325.6	6383.2	4962.7
65°	804.2	879.7	1288.7	2091.6	3333.7	4003.4	4162.6	4220.2	3811.3	3557.4	2661.2
67.5°	538.0	555.8	752.1	1076.0	1483.6	1712.8	1915.9	1921.4	1405.4	1253.0	1048.5
70°	410.4	428.2	591.5	769.9	752.1	694.5	750.7	730.1	754.8	775.4	797.4
72.5°	306.1	323.9	458.4	543.5	451.5	444.7	503.7	560.0	612.1	634.1	668.4
75°	203.1	216.8	308.8	291.0	249.8	295.1	367.8	424.1	454.3	480.4	506.4
77.5°	129.0	138.6	164.7	133.1	138.6	172.9	214.1	264.9	293.7	319.8	333.5
80°	59.0	57.6	56.3	63.1	78.2	101.6	129.0	159.2	181.2	192.1	200.4
82.5°	23.3	26.1	28.8	34.3	42.5	54.9	72.7	93.3	111.2	113.9	120.8
85°	9.6	11.0	12.4	15.1	19.2	24.7	30.2	42.5	53.5	57.6	61.8
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	4.1	6.9	12.4	13.7	15.1
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°	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9	4159.9
2.5°	4187.3	4169.5	4199.7	4220.2	4239.5	4218.9	4212.0	4194.2	4191.4	4191.4	4201.0
5°	4225.7	4213.4	4245.0	4257.3	4255.9	4210.6	4183.2	4147.5	4129.7	4129.7	4132.4
7.5°	4294.4	4287.5	4305.3	4286.1	4242.2	4150.3	4059.7	3984.2	3933.4	3907.3	3915.6
10°	4408.3	4400.0	4384.9	4313.6	4187.3	3996.5	3811.3	3674.0	3591.7	3545.0	3547.8
12.5°	4519.4	4505.7	4452.2	4294.4	4035.0	3731.7	3488.7	3335.0	3244.4	3189.5	3177.2
15°	4641.6	4605.9	4490.6	4195.5	3786.6	3407.8	3153.9	2987.8	2890.4	2857.4	2856.0
17.5°	4758.2	4695.1	4486.5	4019.9	3488.7	3068.8	2813.5	2710.6	2694.1	2709.2	2713.3
20°	4876.3	4774.7	4441.2	3776.9	3134.6	2731.2	2599.4	2641.9	2703.7	2744.9	2754.5
22.5°	4998.4	4840.6	4338.3	3464.0	2761.3	2503.3	2558.2	2651.6	2728.4	2783.3	2788.8
25°	5135.7	4902.3	4184.6	3081.1	2462.2	2440.2	2548.6	2647.4	2729.8	2792.9	2803.9
27.5°	5213.9	4903.7	3969.1	2687.2	2324.9	2415.5	2525.3	2618.6	2701.0	2769.6	2781.9
30°	5290.7	4866.7	3627.4	2367.5	2285.1	2386.7	2485.5	2571.9	2650.2	2717.4	2732.5
32.5°	5399.2	4832.4	3233.5	2183.5	2261.8	2359.2	2440.2	2517.1	2577.4	2607.6	2615.9
35°	5533.7	4788.4	2814.9	2103.9	2246.7	2337.3	2408.6	2449.8	2371.6	2355.1	2372.9
37.5°	5721.7	4747.3	2397.6	2069.6	2237.1	2329.0	2392.2	2286.5	2190.4	2152.0	2165.7
40°	5924.8	4723.9	2114.9	2042.2	2241.2	2337.3	2323.5	2167.1	2028.5	1947.5	1944.7
42.5°	6097.7	4688.2	1933.8	2024.3	2252.2	2368.8	2230.2	2061.4	1855.5	1807.5	1808.9
45°	6214.4	4597.7	1837.7	2005.1	2261.8	2375.7	2186.3	1915.9	1769.1	1738.9	1737.5
47.5°	6262.4	4433.0	1775.9	1974.9	2260.4	2319.4	2097.1	1855.5	1708.7	1700.5	1705.9
50°	6230.9	4162.6	1712.8	1915.9	2227.5	2260.4	1994.2	1802.0	1667.5	1712.8	1745.7
52.5°	6114.2	3812.6	1637.3	1834.9	2168.5	2193.2	1942.0	1769.1	1637.3	1697.7	1723.8
55°	6084.0	3528.5	1541.2	1729.3	2080.6	2073.8	1887.1	1752.6	1616.7	1593.4	1597.5
57.5°	6044.2	3251.3	1382.0	1539.9	1858.3	1869.3	1834.9	1733.4	1563.2	1556.3	1563.2
60°	5250.9	2492.3	1232.4	1328.5	1526.2	1585.2	1775.9	1697.7	1476.7	1447.9	1446.5
62.5°	3429.7	1509.7	1096.6	1158.3	1243.4	1312.1	1619.5	1594.8	1382.0	1364.2	1376.6
65°	1844.6	1076.0	997.8	1034.8	1081.5	1133.6	1342.2	1420.5	1248.9	1185.8	1187.2
67.5°	942.9	915.4	923.7	949.7	985.4	1011.5	1082.9	1151.5	1065.0	1011.5	1010.1
70°	807.0	829.0	841.3	856.4	879.7	875.6	882.5	894.8	888.0	861.9	860.5
72.5°	687.6	721.9	724.6	727.4	735.6	716.4	704.1	683.5	684.8	689.0	690.3
75°	522.9	555.8	564.1	560.0	568.2	543.5	527.0	506.4	481.7	477.6	480.4
77.5°	340.4	366.4	378.8	376.0	380.2	361.0	352.7	330.8	301.9	291.0	291.0
80°	205.9	221.0	230.6	233.3	237.4	223.7	210.0	190.8	178.4	166.1	166.1
82.5°	124.9	134.5	141.4	141.4	145.5	130.4	119.4	105.7	100.2	89.2	89.2
85°	63.1	70.0	72.7	71.4	68.6	56.3	52.2	45.3	42.5	37.1	37.1
87.5°	15.1	19.2	19.2	13.7	13.7	6.9	4.1	1.4	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)