

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: P638328

Luminaire Tested: GWS-SA4E-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27550.7 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

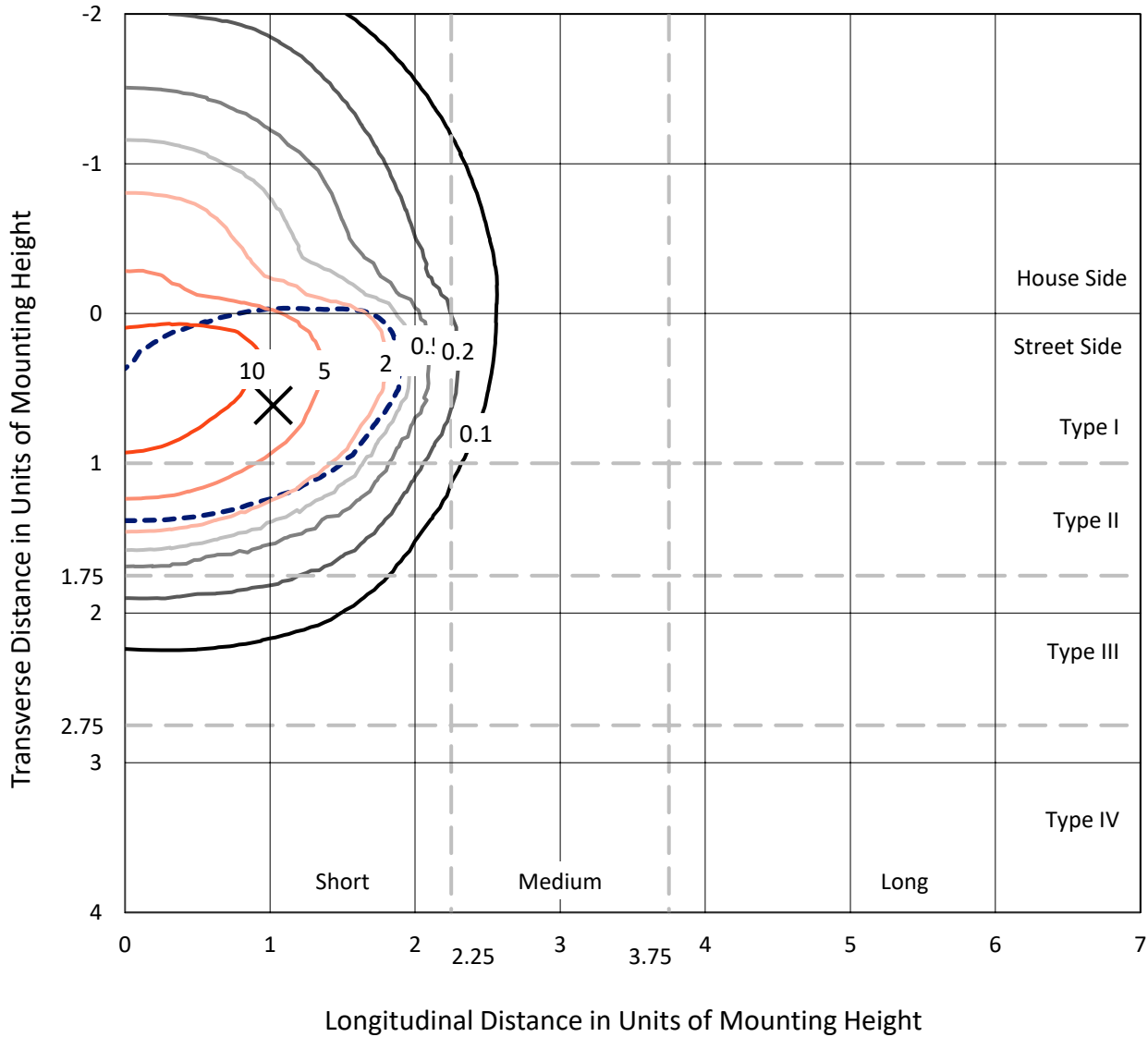
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

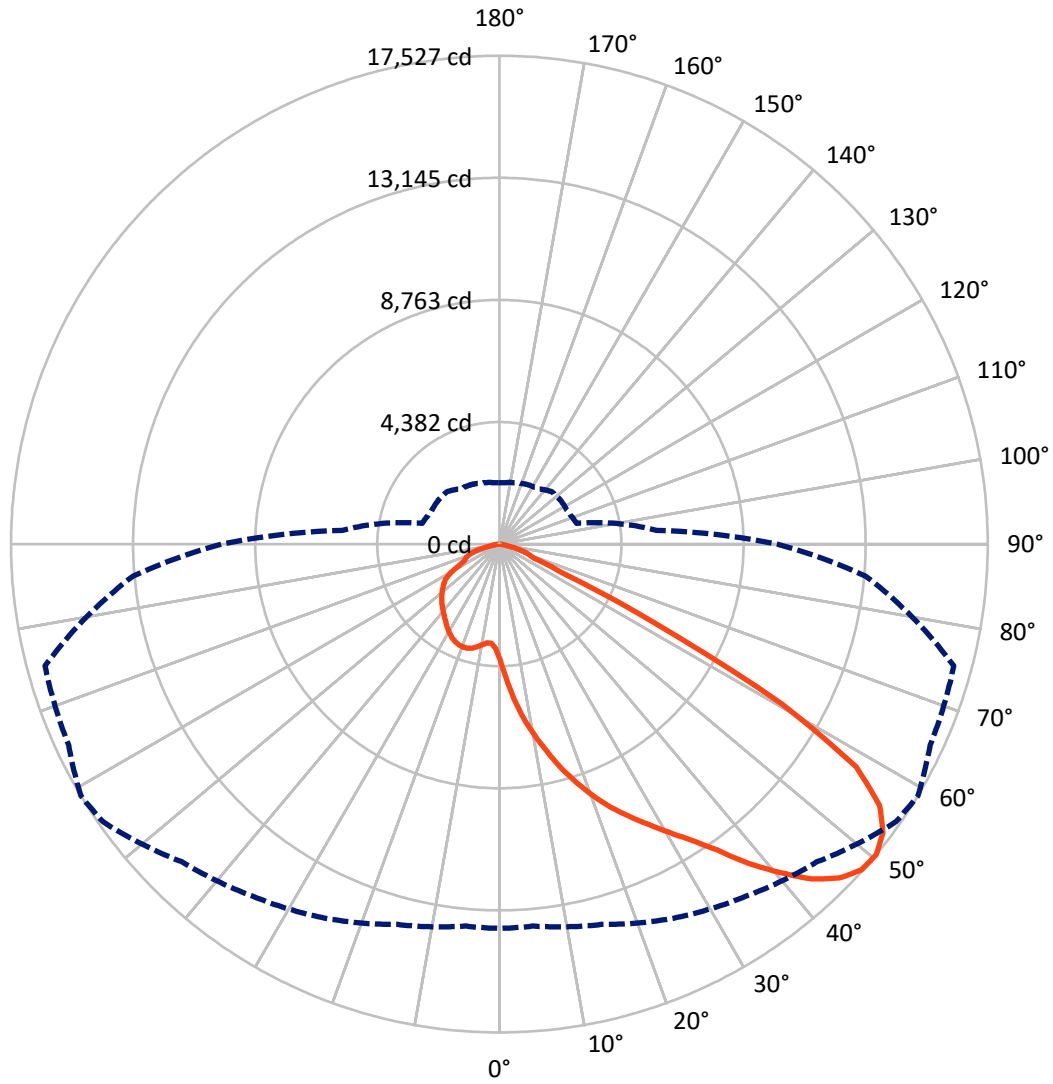
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6337.2	0.0	6337.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	21213.5	0.0	21213.5
	% Fixture	77.0	0.0	77.0
Total	Lumens	27550.7	0.0	27550.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.3	1.7
10°-20°	1699.9	6.2
20°-30°	3218.9	11.7
30°-40°	5337.9	19.4
40°-50°	7291.9	26.5
50°-60°	6619.2	24.0
60°-70°	2204.2	8.0
70°-80°	642.9	2.3
80°-90°	67.5	0.2
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°	27550.7	100.0
0°-180°	27550.7	100.0

Coefficient of Utilization



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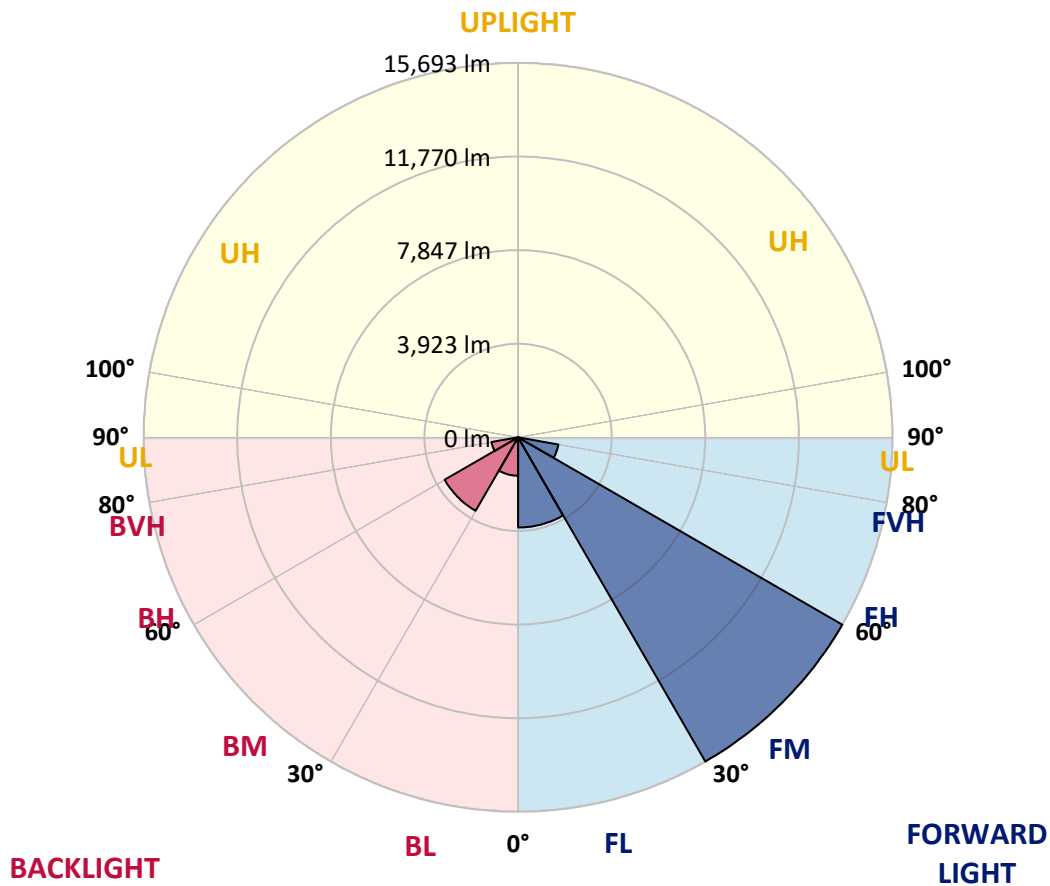
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.9	13.7			
FM (30°-60°)	15693.2	57.0			
FH (60°-80°)	1716.0	6.2			G1/1800
FVH (80°-90°)	26.4	0.1			G1/100
BL (0°-30°)	1609.2	5.8	B3/2500		
BM (30°-60°)	3555.8	12.9	B3/5000		
BH (60°-80°)	1131.1	4.1	B3/2500		G3/2500
BVH (80°-90°)	41.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1
2.5°	5408.4	5448.8	5386.0	5390.5	5233.4	5161.6	4959.6	4840.6	4762.1	4542.2	4342.4
5°	6499.1	6451.9	6402.6	6373.4	6236.5	6043.5	5792.2	5592.4	5408.4	4977.5	4562.4
7.5°	7167.8	7143.1	7109.5	7091.5	6956.9	6754.9	6503.6	6333.0	6065.9	5482.5	4829.4
10°	7735.6	7706.4	7686.2	7699.7	7589.7	7459.6	7185.8	6990.5	6689.8	6016.6	5152.6
12.5°	8175.5	8191.2	8197.9	8269.7	8222.6	8144.0	7861.3	7654.8	7320.4	6579.9	5531.8
15°	8523.3	8518.8	8597.4	8734.2	8810.5	8761.2	8534.5	8361.7	7953.3	7134.2	5940.3
17.5°	8604.1	8608.6	8732.0	8972.1	9221.2	9342.4	9214.5	9008.0	8604.1	7681.7	6364.4
20°	8669.2	8678.1	8806.1	9079.8	9443.4	9782.3	9802.5	9654.3	9306.5	8274.2	6795.3
22.5°	9079.8	9100.0	9133.7	9306.5	9634.2	10062.8	10298.4	10267.0	9975.3	8895.8	7259.8
25°	10159.3	10098.7	9934.9	9885.5	10011.2	10359.0	10760.7	10821.3	10677.7	9580.3	7760.3
27.5°	11492.3	11427.2	11184.9	10929.0	10657.5	10778.7	11207.3	11389.1	11391.3	10334.3	8263.0
30°	12701.9	12650.3	12452.8	12087.0	11618.0	11442.9	11759.4	12004.0	12149.8	11205.1	8835.2
32.5°	13736.5	13689.3	13422.3	13123.8	12666.0	12313.7	12428.1	12663.8	13004.9	12331.6	9546.6
35°	14607.2	14560.1	14304.2	14003.5	13579.4	13368.4	13328.0	13489.6	13931.7	13507.6	10363.5
37.5°	15314.1	15267.0	14999.9	14717.2	14394.0	14407.5	14468.1	14546.6	14800.2	14766.5	11236.5
40°	15771.9	15722.5	15531.8	15329.8	15125.6	15287.2	15587.9	15493.6	15628.3	15783.1	12039.9
42.5°	15976.1	15913.3	15803.3	15758.4	15695.6	15947.0	16525.9	16431.7	16270.1	16460.9	12636.8
45°	15771.9	15718.1	15715.8	15852.7	15998.6	16321.7	17174.5	17098.2	16689.8	16788.5	12993.6
47.5°	15145.8	15098.7	15226.6	15585.6	15944.7	16416.0	17464.0	17477.5	16988.2	16925.4	13224.8
50°	13792.6	13761.2	14131.4	14811.4	15430.8	16122.0	17372.0	17526.8	17060.1	16882.8	13195.6
52.5°	11041.2	11187.1	11992.8	13128.3	14331.2	15605.8	17030.9	17232.9	16714.5	16602.2	13038.5
55°	7558.3	7625.6	8431.3	10089.7	11997.2	14488.3	16247.7	16559.6	16306.0	16555.1	13202.4
57.5°	3913.8	3967.7	4602.8	6074.9	8137.3	11449.7	14073.1	15096.4	15482.4	16793.0	13711.8
60°	1606.8	1651.7	1914.3	2625.7	4104.6	6667.4	10127.9	11644.9	12551.6	15336.5	12176.8
62.5°	1167.0	1189.4	1315.1	1566.4	2149.9	3267.5	5731.6	6290.4	6927.7	9611.7	7731.1
65°	982.9	1007.6	1108.6	1261.2	1568.7	2004.0	2448.4	2461.8	2713.2	3916.0	2865.8
67.5°	823.6	846.0	935.8	1066.0	1267.9	1422.8	1315.1	1317.3	1312.8	1420.5	1373.4
70°	641.8	659.8	749.5	888.7	994.2	913.4	1027.8	1137.8	1090.7	1133.3	1198.4
72.5°	469.0	489.2	567.8	673.2	646.3	650.8	832.6	944.8	917.9	965.0	1025.6
75°	338.9	352.3	392.7	336.6	354.6	428.6	585.7	646.3	673.2	713.6	767.5
77.5°	110.0	110.0	123.4	154.8	193.0	237.9	298.5	323.2	363.6	408.4	446.6
80°	56.1	58.3	69.6	85.3	107.7	136.9	175.0	186.3	206.5	231.1	246.9
82.5°	26.9	29.2	33.7	42.6	56.1	71.8	96.5	107.7	121.2	136.9	148.1
85°	6.7	6.7	9.0	13.5	18.0	26.9	35.9	42.6	53.9	65.1	71.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.7	9.0	11.2	13.5	18.0
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°	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1	4174.1
2.5°	4252.7	4127.0	3965.4	3828.5	3702.9	3606.4	3523.3	3482.9	3444.8	3417.8	3426.8
5°	4369.4	4153.9	3853.2	3644.5	3516.6	3451.5	3406.6	3384.2	3379.7	3361.7	3355.0
7.5°	4539.9	4232.5	3830.8	3619.8	3534.5	3500.9	3476.2	3462.7	3469.5	3451.5	3444.8
10°	4750.9	4362.6	3886.9	3700.6	3626.6	3601.9	3574.9	3557.0	3548.0	3521.1	3516.6
12.5°	5013.4	4524.2	3987.9	3803.8	3729.8	3687.1	3651.2	3619.8	3599.6	3566.0	3557.0
15°	5296.2	4703.7	4106.8	3904.8	3817.3	3754.5	3696.1	3649.0	3613.1	3568.2	3561.5
17.5°	5603.7	4892.3	4205.5	3974.4	3862.2	3779.2	3693.9	3624.3	3574.9	3516.6	3509.9
20°	5924.6	5083.0	4279.6	4008.1	3864.4	3752.2	3637.8	3545.8	3482.9	3424.6	3420.1
22.5°	6256.7	5258.1	4324.5	3999.1	3828.5	3689.4	3552.5	3449.3	3375.2	3305.6	3301.2
25°	6591.1	5426.4	4335.7	3963.2	3756.7	3595.1	3458.2	3337.1	3254.0	3175.5	3166.5
27.5°	6929.9	5567.7	4308.8	3891.4	3660.2	3485.2	3348.3	3229.3	3144.1	3065.5	3052.0
30°	7291.3	5688.9	4250.4	3797.1	3548.0	3368.5	3233.8	3144.1	3063.3	2984.7	2971.3
32.5°	7677.2	5794.4	4167.4	3682.7	3417.8	3251.8	3153.0	3072.2	2991.5	2921.9	2908.4
35°	8137.3	5864.0	4044.0	3534.5	3296.7	3166.5	3099.2	3004.9	2906.2	2829.9	2823.1
37.5°	8613.1	5917.8	3895.9	3393.2	3191.2	3117.1	3061.0	2933.1	2809.7	2717.7	2706.4
40°	9073.1	5962.7	3711.8	3260.8	3094.7	3081.2	3004.9	2845.6	2632.4	2529.2	2520.2
42.5°	9501.7	5976.2	3518.8	3119.4	3007.2	3000.4	2915.2	2668.3	2504.5	2439.4	2430.4
45°	9795.7	5965.0	3319.1	2987.0	2919.6	2883.7	2794.0	2540.4	2439.4	2381.0	2369.8
47.5°	10013.4	5906.6	3094.7	2847.8	2820.9	2771.5	2578.5	2459.6	2365.3	2307.0	2295.8
50°	9975.3	5664.2	2868.0	2713.2	2702.0	2659.3	2421.4	2358.6	2275.6	2212.7	2203.8
52.5°	9777.8	5204.2	2636.9	2565.1	2587.5	2504.5	2309.2	2237.4	2165.6	2093.8	2078.1
55°	9827.1	4872.1	2461.8	2421.4	2461.8	2273.3	2183.6	2107.3	2039.9	1970.4	1956.9
57.5°	10042.6	4544.4	2275.6	2266.6	2309.2	2096.0	2022.0	1925.5	1829.0	1772.9	1772.9
60°	8433.5	3312.4	1947.9	1970.4	2066.9	1952.4	1887.3	1788.6	1683.1	1633.7	1633.7
62.5°	4986.5	2078.1	1615.8	1591.1	1651.7	1723.5	1759.4	1678.6	1553.0	1487.9	1490.1
65°	2197.0	1512.6	1425.0	1404.8	1386.9	1436.3	1535.0	1541.7	1409.3	1333.0	1335.3
67.5°	1353.2	1368.9	1333.0	1317.3	1301.6	1292.6	1283.7	1288.1	1252.2	1182.7	1180.4
70°	1220.8	1263.5	1238.8	1225.3	1205.1	1189.4	1135.5	1048.0	987.4	969.5	989.7
72.5°	1050.3	1108.6	1095.1	1088.4	1063.7	1025.6	953.8	868.5	796.7	751.8	760.8
75°	792.2	839.3	846.0	848.3	821.4	785.5	711.4	639.6	576.7	529.6	540.8
77.5°	455.6	482.5	489.2	496.0	475.8	462.3	412.9	361.3	327.6	278.3	291.7
80°	253.6	264.8	264.8	267.1	255.8	240.1	206.5	177.3	161.6	139.1	141.4
82.5°	152.6	157.1	159.3	161.6	154.8	139.1	114.5	94.3	85.3	74.1	71.8
85°	74.1	78.5	78.5	80.8	69.6	60.6	47.1	35.9	31.4	22.4	24.7
87.5°	18.0	20.2	20.2	18.0	15.7	11.2	6.7	2.2	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)