

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: P638214

Luminaire Tested: GWS-SA4E-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25164.4 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

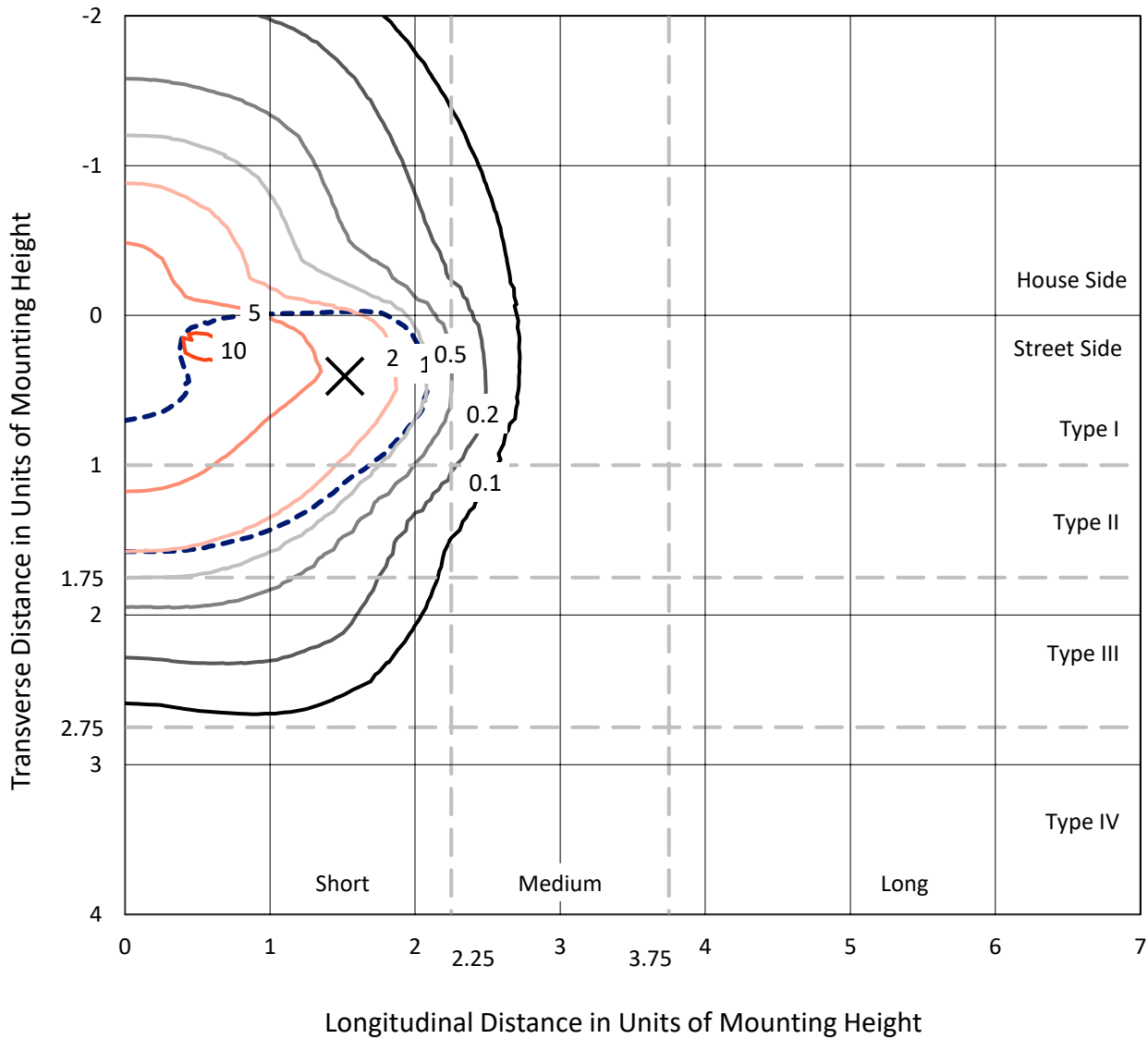
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

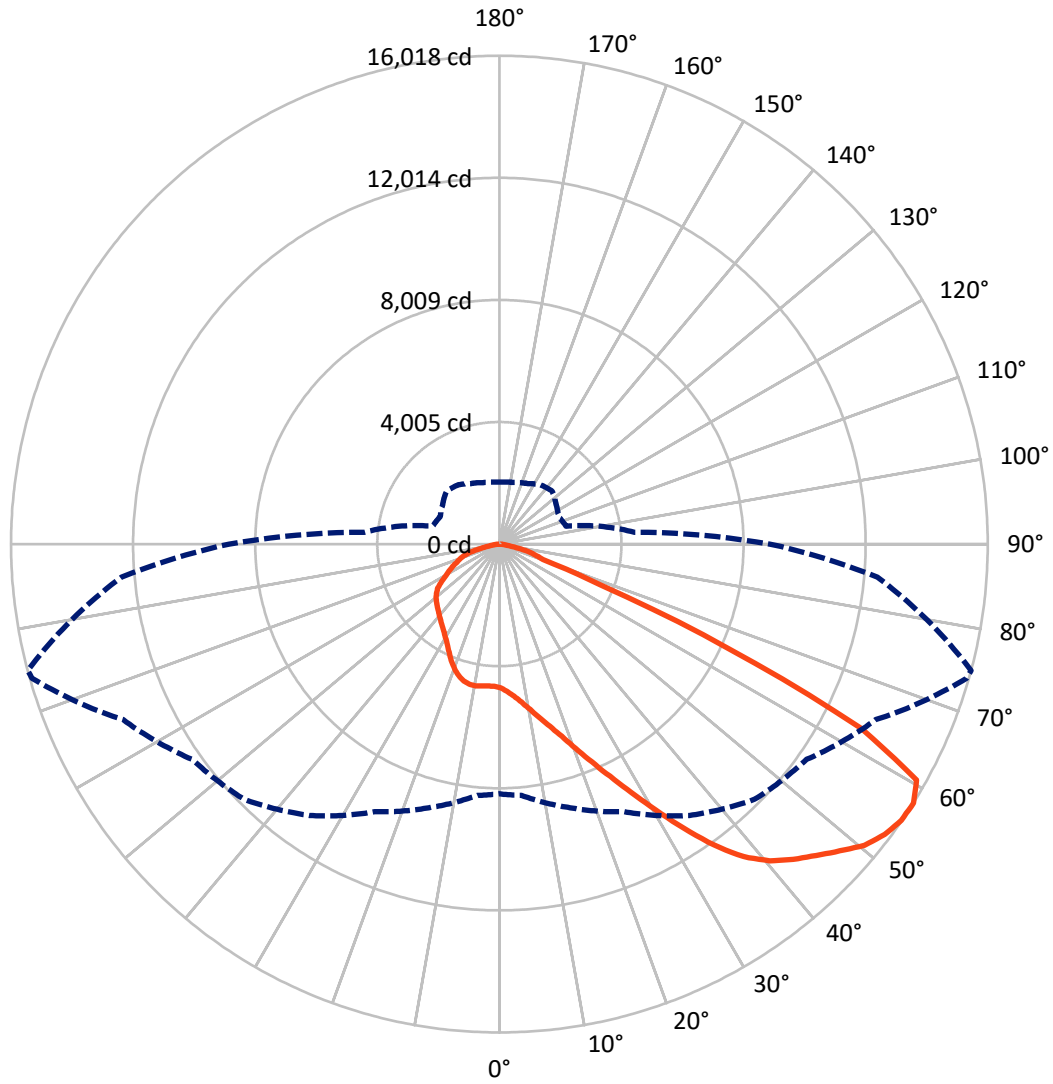
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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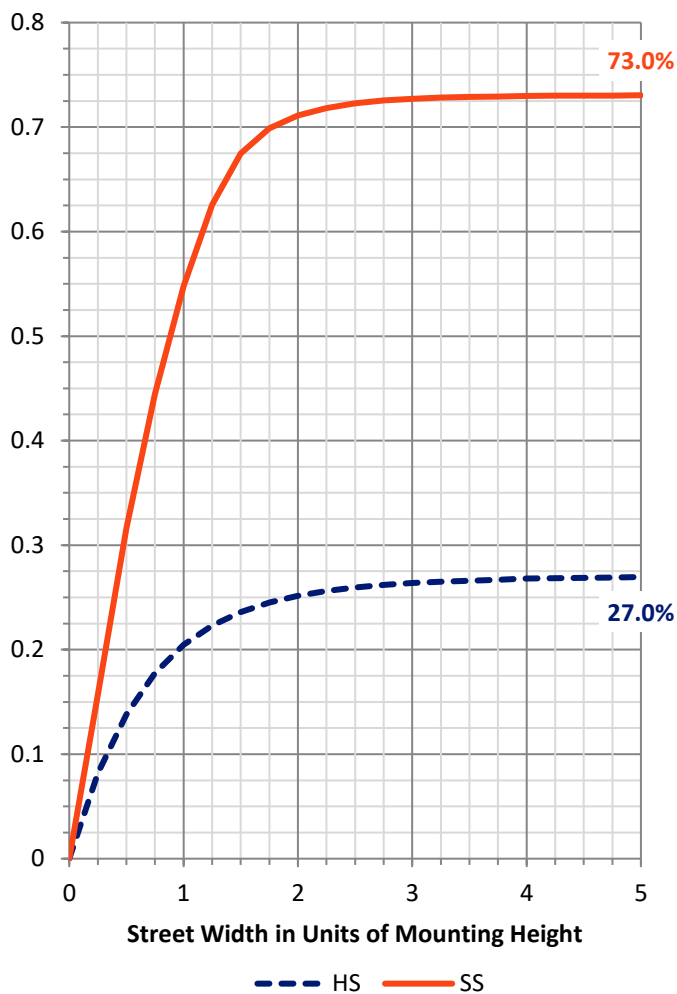
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6807.5	0.0	6807.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	18356.9	0.0	18356.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	25164.4	0.0	25164.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.6	1.9
10°-20°	1501.5	6.0
20°-30°	2662.8	10.6
30°-40°	4076.3	16.2
40°-50°	5675.9	22.6
50°-60°	6503.5	25.8
60°-70°	3341.6	13.3
70°-80°	841.3	3.3
80°-90°	89.9	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°	25164.4	100.0
0°-180°	25164.4	100.0

Coefficient of Utilization



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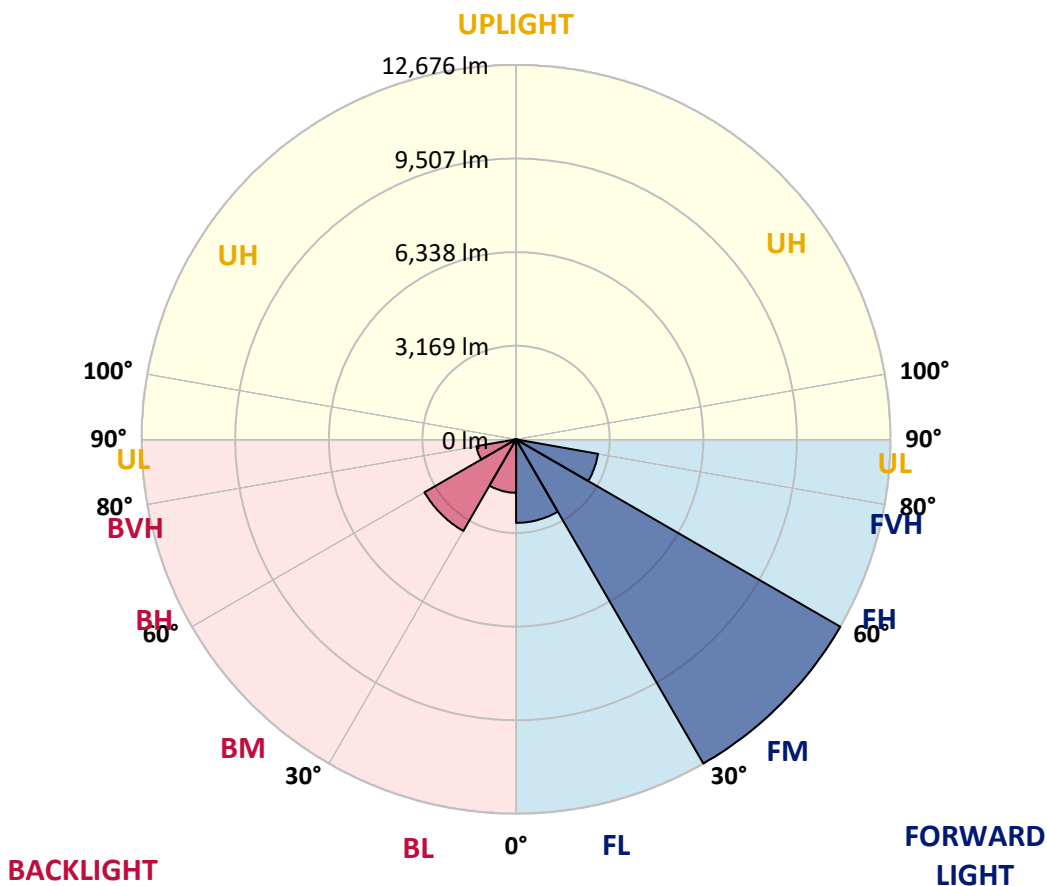
CATALOG NUMBER: GWS-SA4E-735-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2827.4	11.2			
FM (30°-60°)	12675.6	50.4			
FH (60°-80°)	2820.7	11.2			G2/5000
FVH (80°-90°)	33.3	0.1			G1/100
BL (0°-30°)	1808.5	7.2	B3/2500		
BM (30°-60°)	3580.1	14.2	B3/5000		
BH (60°-80°)	1362.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	56.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7
2.5°	5063.2	5076.2	5063.2	5084.9	5041.6	5022.1	4974.5	4903.1	4846.8	4838.2	4775.4
5°	5457.0	5485.2	5467.8	5459.2	5400.8	5357.5	5286.1	5143.3	5026.4	5009.1	4885.8
7.5°	5710.2	5729.7	5729.7	5736.2	5714.5	5664.7	5589.0	5420.2	5255.8	5229.8	5043.7
10°	5794.6	5809.7	5837.8	5891.9	5935.2	5950.4	5900.6	5738.3	5537.1	5511.1	5251.5
12.5°	5814.0	5831.4	5874.6	5974.2	6093.2	6201.4	6210.0	6091.0	5866.0	5837.8	5491.6
15°	5850.8	5868.1	5926.6	6049.9	6225.2	6432.9	6560.5	6478.3	6229.5	6199.2	5764.3
17.5°	5846.5	5866.0	5952.5	6117.0	6352.8	6653.6	6900.3	6934.9	6677.4	6625.5	6073.7
20°	5835.7	5853.0	5946.0	6147.3	6439.4	6852.7	7298.4	7478.0	7201.0	7153.4	6435.0
22.5°	5922.2	5941.7	6013.1	6179.7	6484.8	7006.3	7666.2	8099.0	7822.0	7754.9	6850.5
25°	6117.0	6145.1	6188.4	6303.1	6567.0	7142.6	8042.7	8802.2	8518.8	8438.7	7302.7
27.5°	6417.7	6452.4	6512.9	6567.0	6751.0	7315.7	8417.1	9589.8	9306.4	9222.0	7780.9
30°	6785.6	6831.0	6908.9	6945.7	7071.2	7571.0	8823.8	10401.2	10236.8	10119.9	8319.7
32.5°	7294.1	7356.8	7430.4	7441.2	7516.9	7958.3	9226.3	11206.2	11204.0	11121.8	8932.0
35°	7956.2	8023.3	8038.4	8053.5	8090.3	8490.6	9713.2	11939.7	12223.1	12127.9	9598.5
37.5°	8678.9	8776.2	8800.0	8733.0	8784.9	9131.1	10260.6	12528.2	13110.3	13008.6	10243.3
40°	9451.3	9490.3	9555.2	9449.2	9514.1	9864.6	10797.2	12904.7	13772.4	13664.2	10751.8
42.5°	10005.3	10076.7	10174.0	10135.1	10171.9	10492.1	11173.7	13086.5	14244.1	14135.9	11117.4
45°	10606.8	10628.4	10691.2	10682.5	10704.2	11002.8	11444.2	13166.5	14666.0	14568.7	11429.0
47.5°	11130.4	11162.9	11204.0	11156.4	11108.8	11303.5	11664.9	13235.8	15152.9	15036.0	11755.8
50°	11634.6	11662.7	11712.5	11574.0	11396.6	11446.3	11773.1	13331.0	15609.4	15527.2	12013.2
52.5°	11727.6	11757.9	11991.6	12019.7	11792.5	11617.3	11963.5	13540.9	15877.7	15825.8	12106.3
55°	10557.0	10611.1	11076.3	11610.8	12171.2	12114.9	12268.6	13651.2	15983.8	15996.7	12272.9
57.5°	8194.2	8272.1	8951.5	9685.0	10864.3	11840.1	12307.5	13623.1	15947.0	16018.4	12443.8
60°	5374.8	5420.2	6225.2	7047.4	8269.9	9620.1	11015.7	13116.8	15620.2	15721.9	12400.6
62.5°	3245.7	3297.6	3944.6	4567.7	5288.3	6190.5	7471.5	10541.9	13093.0	13320.2	9931.7
65°	2265.5	2334.7	2901.6	3414.4	3663.3	3477.2	3784.4	5887.6	8157.4	8252.6	6069.4
67.5°	1642.3	1689.9	2155.1	2765.3	3040.1	2455.9	1871.7	2607.3	3552.9	3587.5	2503.5
70°	1075.4	1129.5	1551.4	2105.3	2481.8	1990.7	1400.0	1410.8	1495.2	1512.5	1454.1
72.5°	590.7	623.2	958.5	1397.8	1467.0	1190.1	1092.7	1172.8	1231.2	1231.2	1246.3
75°	305.1	333.2	391.6	460.9	556.1	651.3	787.6	906.6	969.4	973.7	967.2
77.5°	155.8	166.6	209.9	227.2	248.8	289.9	376.5	482.5	538.8	560.4	556.1
80°	73.6	77.9	88.7	103.9	127.7	162.3	203.4	242.3	277.0	281.3	305.1
82.5°	38.9	43.3	47.6	56.3	69.2	86.6	119.0	142.8	164.4	168.8	188.2
85°	15.1	17.3	19.5	21.6	30.3	36.8	49.8	67.1	82.2	82.2	97.4
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.7	10.8	15.1	15.1	26.0
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°	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7	4712.7
2.5°	4760.3	4697.5	4669.4	4624.0	4587.2	4546.1	4513.6	4489.8	4474.7	4466.0	4457.4
5°	4838.2	4743.0	4667.2	4576.4	4513.6	4453.0	4403.3	4368.6	4351.3	4338.4	4329.7
7.5°	4959.4	4831.7	4688.9	4548.2	4437.9	4340.5	4277.8	4241.0	4217.2	4208.5	4202.0
10°	5126.0	4948.5	4712.7	4489.8	4325.4	4219.3	4176.1	4158.8	4160.9	4156.6	4154.4
12.5°	5314.2	5071.9	4706.2	4386.0	4204.2	4141.5	4143.6	4171.7	4204.2	4212.9	4215.0
15°	5517.6	5193.0	4643.4	4251.8	4109.0	4115.5	4171.7	4238.8	4299.4	4323.2	4327.5
17.5°	5738.3	5294.7	4528.8	4104.7	4031.1	4100.3	4204.2	4314.6	4403.3	4442.2	4453.0
20°	5985.0	5381.3	4366.5	3959.7	3957.5	4072.2	4223.7	4368.6	4481.2	4533.1	4541.8
22.5°	6246.8	5435.4	4167.4	3825.5	3881.8	4035.4	4208.5	4360.0	4479.0	4530.9	4541.8
25°	6510.8	5452.7	3948.9	3702.2	3803.9	3977.0	4135.0	4256.1	4368.6	4414.1	4422.7
27.5°	6757.4	5402.9	3741.2	3596.2	3732.5	3890.5	3996.5	4061.4	4139.3	4173.9	4180.4
30°	7008.4	5303.4	3565.9	3511.8	3652.4	3771.4	3819.1	3823.4	3853.7	3853.7	3858.0
32.5°	7261.6	5156.3	3412.3	3429.6	3552.9	3630.8	3637.3	3587.5	3550.7	3490.2	3488.0
35°	7553.7	5007.0	3286.8	3336.5	3436.1	3483.7	3464.2	3369.0	3280.3	3180.7	3176.4
37.5°	7824.2	4853.3	3180.7	3241.3	3304.1	3338.7	3293.3	3178.6	3105.0	3003.3	2988.2
40°	8047.1	4714.9	3079.0	3141.8	3172.1	3202.4	3128.8	3035.8	3046.6	2990.3	2988.2
42.5°	8176.9	4580.7	2983.8	3031.4	3050.9	3072.6	3007.6	2938.4	2996.8	2953.5	2955.7
45°	8272.1	4463.9	2897.3	2914.6	2962.2	2994.7	2934.1	2856.2	2869.2	2702.5	2663.6
47.5°	8380.3	4398.9	2815.1	2797.8	2882.1	2938.4	2845.4	2732.8	2654.9	2490.5	2475.4
50°	8495.0	4375.1	2728.5	2680.9	2782.6	2836.7	2728.5	2587.9	2486.2	2397.5	2388.8
52.5°	8533.9	4373.0	2620.3	2540.3	2642.0	2717.7	2626.8	2484.0	2362.8	2276.3	2272.0
55°	8687.5	4435.7	2481.8	2347.7	2442.9	2598.7	2531.6	2326.1	2228.7	2189.7	2185.4
57.5°	8867.1	4446.5	2263.3	2137.8	2269.8	2453.7	2369.3	2191.9	2085.9	2038.3	2033.9
60°	8793.6	4180.4	2029.6	1977.7	2122.7	2317.4	2239.5	2085.9	1962.5	1917.1	1912.8
62.5°	6701.2	2951.4	1858.7	1839.2	1964.7	2120.5	2105.3	1945.2	1828.4	1795.9	1791.6
65°	4031.1	2072.9	1694.2	1692.1	1780.8	1930.1	1949.6	1819.7	1696.4	1651.0	1651.0
67.5°	1992.8	1586.0	1508.1	1497.3	1553.6	1659.6	1741.8	1635.8	1531.9	1488.7	1482.2
70°	1408.6	1397.8	1371.8	1341.5	1352.4	1395.6	1430.3	1341.5	1231.2	1187.9	1179.3
72.5°	1218.2	1220.4	1203.1	1179.3	1170.6	1140.3	1110.0	1045.1	978.0	932.6	936.9
75°	945.6	949.9	960.7	952.1	928.3	895.8	863.3	781.1	727.0	683.8	675.1
77.5°	551.8	573.4	608.0	599.4	603.7	558.3	545.3	465.2	415.4	385.2	378.7
80°	311.6	324.6	339.7	350.5	337.5	318.1	289.9	246.7	231.5	209.9	205.6
82.5°	188.2	201.2	207.7	216.4	212.0	186.1	164.4	136.3	123.3	112.5	110.4
85°	95.2	103.9	110.4	114.7	101.7	84.4	75.7	60.6	51.9	45.4	45.4
87.5°	23.8	26.0	30.3	26.0	23.8	10.8	8.7	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)