

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: P638332

Luminaire Tested: GWS-SA4E-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 26718.1 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

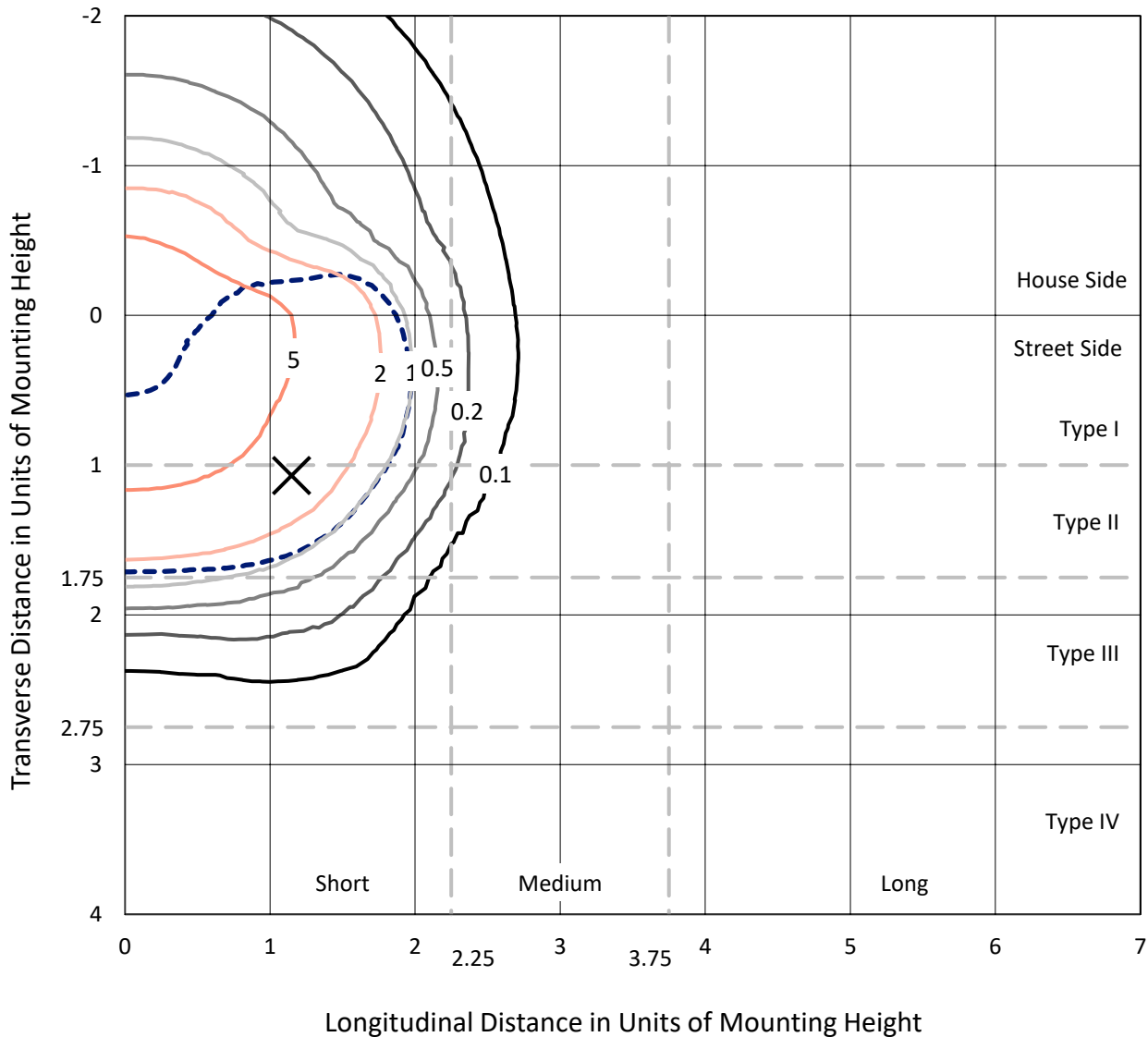
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

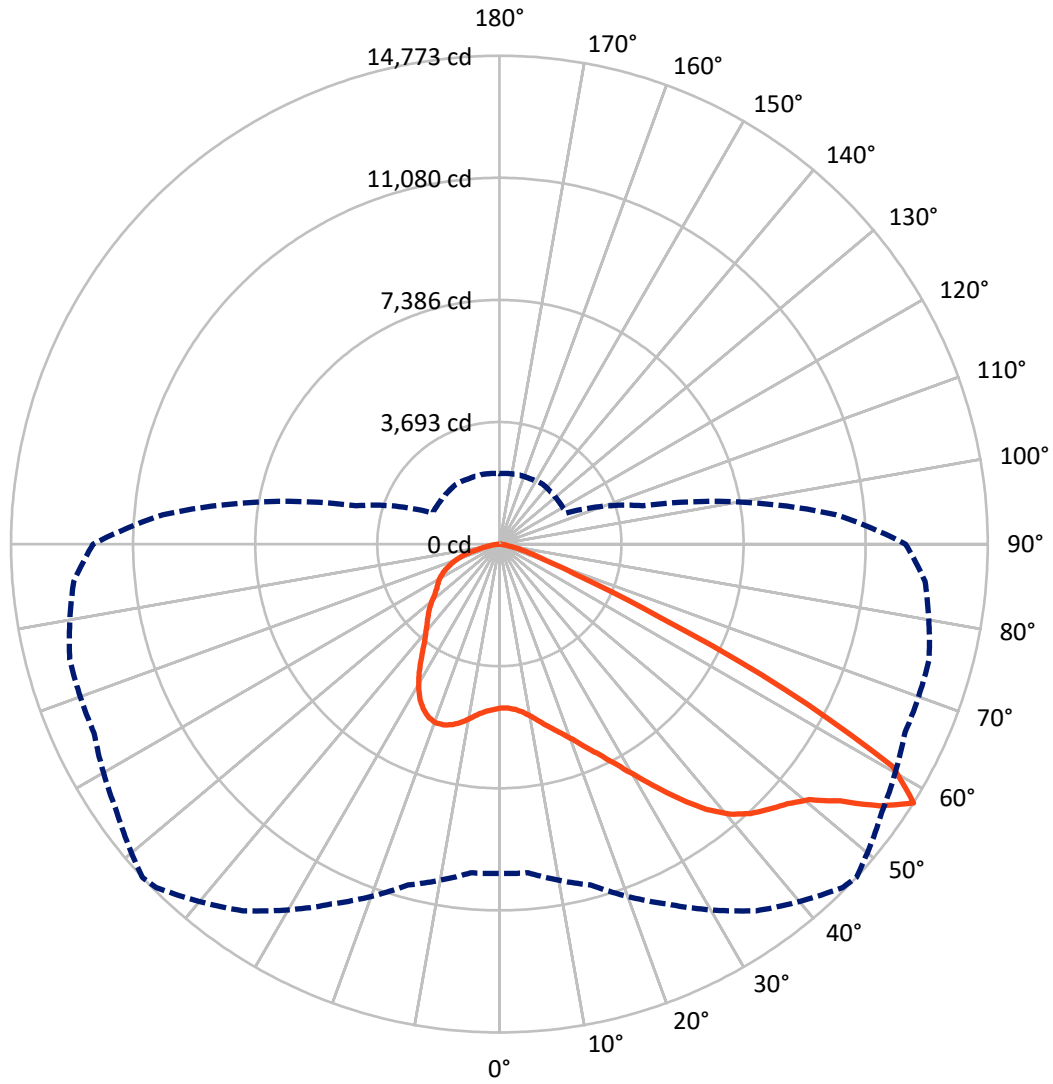
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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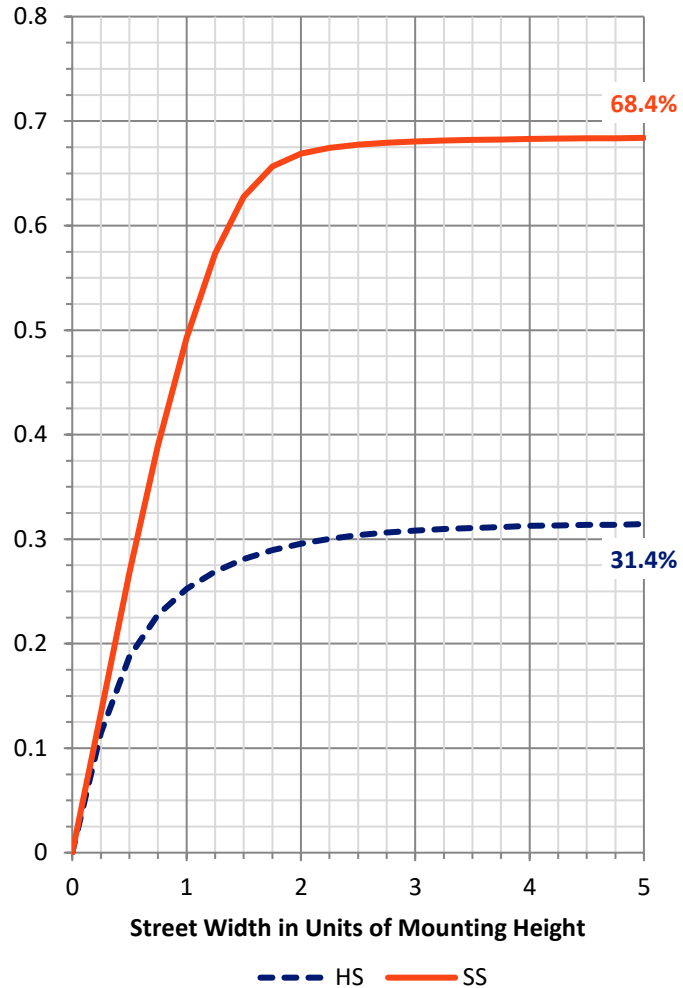
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8456.2	0.0	8456.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18261.9	0.0	18261.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	26718.1	0.0	26718.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.7	1.8
10°-20°	1607.4	6.0
20°-30°	2894.3	10.8
30°-40°	4371.5	16.4
40°-50°	5886.7	22.0
50°-60°	7073.7	26.5
60°-70°	3445.0	12.9
70°-80°	848.7	3.2
80°-90°	102.0	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°	26718.1	100.0
0°-180°	26718.1	100.0

Coefficient of Utilization



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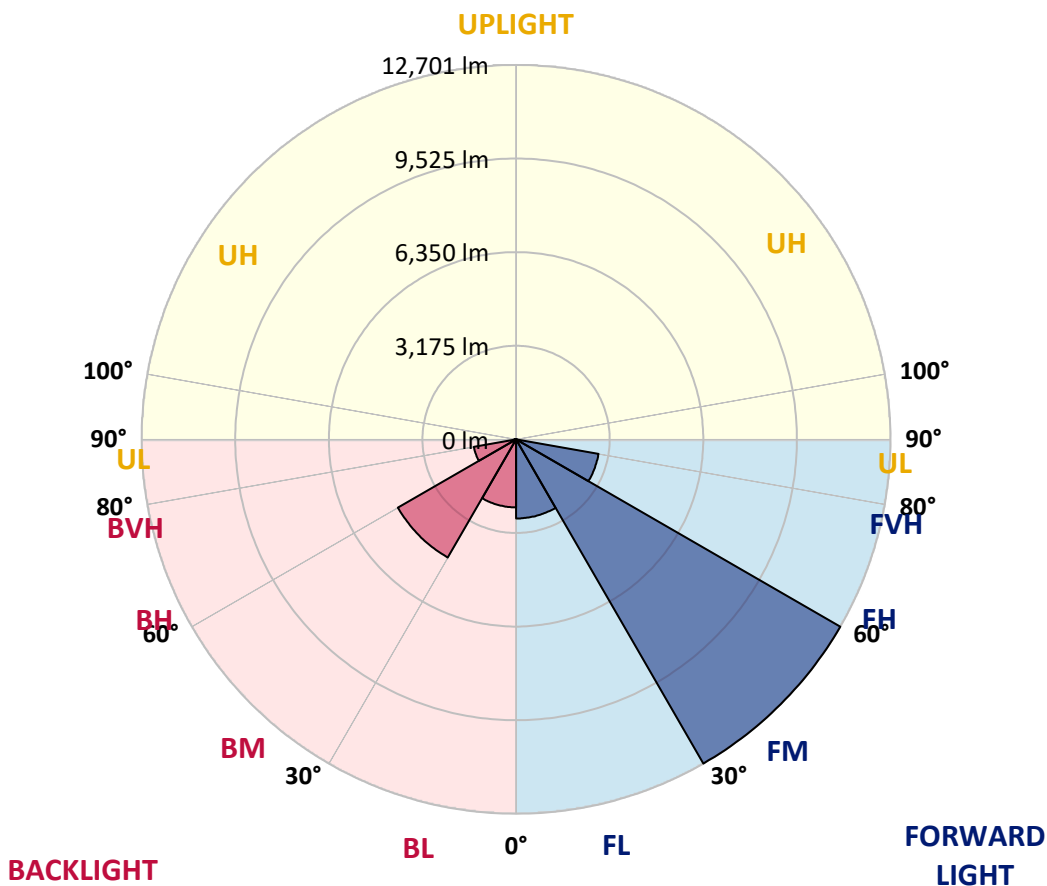
CATALOG NUMBER: GWS-SA4E-750-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.7	10.0			
FM (30°-60°)	12700.5	47.5			
FH (60°-80°)	2839.3	10.6			G2/5000
FVH (80°-90°)	38.3	0.1			G1/100
BL (0°-30°)	2306.7	8.6	B3/2500		
BM (30°-60°)	4631.4	17.3	B3/5000		
BH (60°-80°)	1454.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	63.7	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°	47°	55°	65°	75°	85°
0°	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9
2.5°	4945.9	4943.7	4943.7	4957.2	4957.2	4961.6	4968.4	4975.1	4977.4	4966.1	4941.4
5°	4999.8	4999.8	4999.8	5011.0	5011.0	5015.5	5024.5	5026.7	5024.5	5006.5	4981.8
7.5°	5085.1	5085.1	5087.3	5100.8	5112.0	5118.7	5134.4	5132.2	5125.5	5096.3	5064.9
10°	5224.2	5230.9	5237.7	5253.4	5275.8	5291.5	5302.7	5302.7	5293.8	5248.9	5208.5
12.5°	5421.7	5430.7	5437.4	5450.9	5468.8	5495.7	5520.4	5520.4	5509.2	5453.1	5392.5
15°	5652.8	5661.8	5659.5	5664.0	5697.7	5735.8	5756.0	5769.5	5774.0	5695.5	5601.2
17.5°	5917.6	5926.6	5917.6	5904.2	5908.6	5969.2	6005.1	6054.5	6083.7	5978.2	5827.9
20°	6157.7	6148.8	6148.8	6157.7	6171.2	6245.3	6299.1	6379.9	6415.8	6287.9	6054.5
22.5°	6411.3	6431.5	6422.5	6422.5	6476.4	6599.8	6664.9	6770.4	6808.5	6642.5	6328.3
25°	6738.9	6756.9	6752.4	6756.9	6819.7	6994.8	7059.8	7255.1	7293.2	7055.4	6631.2
27.5°	7098.0	7127.2	7140.6	7136.1	7237.1	7466.0	7546.8	7818.3	7887.9	7517.6	6954.4
30°	7564.8	7596.2	7607.4	7602.9	7721.9	8033.8	8125.8	8435.5	8534.2	8065.2	7365.0
32.5°	8105.6	8137.0	8170.7	8184.1	8336.7	8655.4	8787.8	9108.7	9250.1	8698.0	7861.0
35°	8641.9	8668.8	8733.9	8839.4	9048.1	9373.5	9490.2	9806.6	9943.5	9355.5	8460.2
37.5°	9234.4	9252.3	9308.4	9454.3	9755.0	10064.7	10181.4	10484.3	10500.0	9990.6	9137.9
40°	9882.9	9882.9	9871.7	10015.3	10329.5	10641.4	10742.4	10917.4	10825.4	10479.8	9797.6
42.5°	10432.7	10423.7	10432.7	10567.3	10800.7	11054.3	11141.8	11108.2	10991.5	10854.6	10394.5
45°	10928.6	10935.4	11016.1	11119.4	11240.6	11390.9	11442.5	11251.8	11146.3	11155.3	10872.5
47.5°	11265.2	11272.0	11460.5	11633.3	11707.3	11754.4	11732.0	11467.2	11413.3	11514.3	11240.6
50°	11310.1	11346.0	11671.4	12026.0	12210.0	12216.7	12153.9	11830.7	11815.0	11929.5	11438.0
52.5°	11319.1	11355.0	11761.2	12400.7	12878.7	12979.7	12907.9	12571.3	12407.5	12293.0	11680.4
55°	11285.4	11325.8	11774.6	12652.1	13567.7	13971.6	13978.3	13502.6	12979.7	12903.4	12371.6
57.5°	9963.7	9979.4	10675.0	12012.5	13540.7	14685.2	14772.7	14126.4	13529.5	13457.7	12925.9
60°	6940.9	7003.7	7760.0	9526.1	11375.2	13392.6	13675.4	13486.9	13087.4	12564.6	11090.2
62.5°	3476.1	3529.9	4288.4	5958.0	7845.3	9438.6	9741.5	9941.2	10035.5	9474.5	7551.3
65°	1496.8	1537.2	2008.4	3112.5	4441.0	5210.7	5316.2	5556.3	6144.3	5482.3	4068.5
67.5°	1000.9	1027.8	1267.9	1898.5	2616.6	2666.0	2650.2	2701.9	2829.8	2336.1	1837.9
70°	767.5	789.9	951.5	1391.3	1880.5	1609.0	1523.7	1382.3	1501.3	1530.5	1490.1
72.5°	556.5	574.5	695.7	949.2	1178.1	1027.8	1014.3	1086.1	1247.7	1292.6	1267.9
75°	359.1	368.0	442.1	520.6	608.1	659.8	686.7	816.8	980.7	1014.3	985.1
77.5°	240.1	246.8	289.5	334.4	345.6	347.8	356.8	415.2	527.4	590.2	583.5
80°	125.7	125.7	141.4	141.4	161.6	193.0	202.0	240.1	291.7	323.1	325.4
82.5°	49.4	51.6	60.6	67.3	80.8	98.7	105.5	125.7	152.6	175.0	195.2
85°	20.2	22.4	24.7	29.2	35.9	44.9	47.1	53.9	71.8	89.8	101.0
87.5°	0.0	0.0	2.2	2.2	4.5	6.7	6.7	9.0	11.2	20.2	26.9
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°	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9	4954.9
2.5°	4970.6	4941.4	4970.6	4979.6	5004.3	5013.3	4997.5	4995.3	4995.3	4972.9	4966.1
5°	5004.3	4977.4	5006.5	5020.0	5055.9	5078.3	5082.8	5100.8	5112.0	5103.0	5100.8
7.5°	5087.3	5053.6	5085.1	5105.3	5152.4	5188.3	5204.0	5244.4	5273.6	5269.1	5266.8
10°	5233.2	5188.3	5224.2	5257.9	5309.5	5352.1	5354.4	5376.8	5406.0	5397.0	5392.5
12.5°	5401.5	5358.8	5399.2	5432.9	5493.5	5511.4	5482.3	5473.3	5477.8	5466.6	5457.6
15°	5607.9	5547.3	5583.3	5621.4	5655.1	5634.9	5572.0	5547.3	5545.1	5529.4	5520.4
17.5°	5814.4	5738.1	5765.0	5785.2	5769.5	5706.7	5628.1	5585.5	5565.3	5533.9	5524.9
20°	6018.6	5922.1	5917.6	5901.9	5830.1	5715.7	5610.2	5524.9	5473.3	5430.7	5414.9
22.5°	6252.0	6117.3	6050.0	5978.2	5821.1	5634.9	5475.5	5354.4	5271.3	5217.5	5199.5
25°	6503.3	6312.6	6173.4	6029.8	5731.4	5462.1	5239.9	5073.8	4975.1	4916.8	4896.6
27.5°	6752.4	6489.9	6281.2	6036.6	5551.8	5213.0	4914.5	4690.1	4591.4	4544.2	4528.5
30°	7089.0	6725.5	6409.1	5949.0	5316.2	4867.4	4494.9	4268.2	4203.1	4169.5	4156.0
32.5°	7477.2	7023.9	6579.6	5765.0	5015.5	4463.5	4070.7	3913.7	3868.8	3803.7	3801.5
35°	7988.9	7450.3	6741.2	5493.5	4636.3	4030.4	3745.4	3633.2	3552.4	3449.1	3440.2
37.5°	8585.8	7982.2	6828.7	5147.9	4194.2	3673.5	3503.0	3377.3	3247.2	3110.3	3092.3
40°	9202.9	8603.8	6835.4	4739.5	3761.1	3437.9	3294.3	3130.5	2968.9	2816.3	2796.1
42.5°	9851.5	9182.7	6716.5	4268.2	3406.5	3233.7	3087.8	2881.4	2699.6	2596.4	2585.2
45°	10430.4	9649.5	6447.2	3772.3	3143.9	3063.2	2876.9	2654.7	2558.2	2484.2	2468.5
47.5°	10886.0	9959.2	6083.7	3328.0	2930.8	2888.1	2645.8	2531.3	2457.3	2389.9	2374.2
50°	11110.4	10028.8	5610.2	2966.7	2733.3	2681.7	2515.6	2428.1	2378.7	2324.9	2311.4
52.5°	11388.7	10107.3	5201.8	2663.7	2540.3	2470.7	2407.9	2338.3	2302.4	2268.8	2257.5
55°	12028.2	10403.5	4986.3	2421.4	2356.3	2324.9	2315.9	2257.5	2246.3	2223.9	2203.7
57.5°	12288.5	10212.8	4476.9	2223.9	2210.4	2214.9	2237.3	2183.5	2172.3	2145.3	2131.9
60°	9882.9	7719.6	3031.7	2053.3	2089.2	2118.4	2140.8	2087.0	2071.3	2066.8	2048.8
62.5°	6332.8	4748.5	2116.2	1894.0	1947.9	1983.8	1997.2	1945.6	1934.4	1970.3	1972.5
65°	3296.5	2587.4	1716.7	1723.4	1768.3	1822.2	1849.1	1831.2	1826.7	1864.8	1867.1
67.5°	1683.1	1582.1	1496.8	1521.5	1557.4	1627.0	1689.8	1768.3	1795.3	1799.7	1802.0
70°	1434.0	1389.1	1346.4	1362.2	1400.3	1438.4	1499.0	1537.2	1492.3	1481.1	1476.6
72.5°	1220.8	1187.1	1166.9	1184.9	1205.1	1198.3	1180.4	1198.3	1205.1	1207.3	1209.6
75°	949.2	924.6	908.8	911.1	911.1	886.4	852.7	832.6	810.1	792.2	792.2
77.5°	581.2	585.7	601.4	599.2	596.9	587.9	554.3	536.3	482.5	466.8	466.8
80°	332.1	338.9	354.6	359.1	359.1	347.8	314.2	294.0	269.3	258.1	255.8
82.5°	202.0	210.9	219.9	224.4	226.7	213.2	184.0	168.3	154.8	143.6	143.6
85°	105.5	110.0	118.9	121.2	114.4	101.0	85.3	78.5	65.1	62.8	62.8
87.5°	29.2	31.4	35.9	29.2	26.9	20.2	11.2	9.0	4.5	2.2	2.2
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)