

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: P637871

Luminaire Tested: GWS-SA4D-760-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-760-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24208.2 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 162.1
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

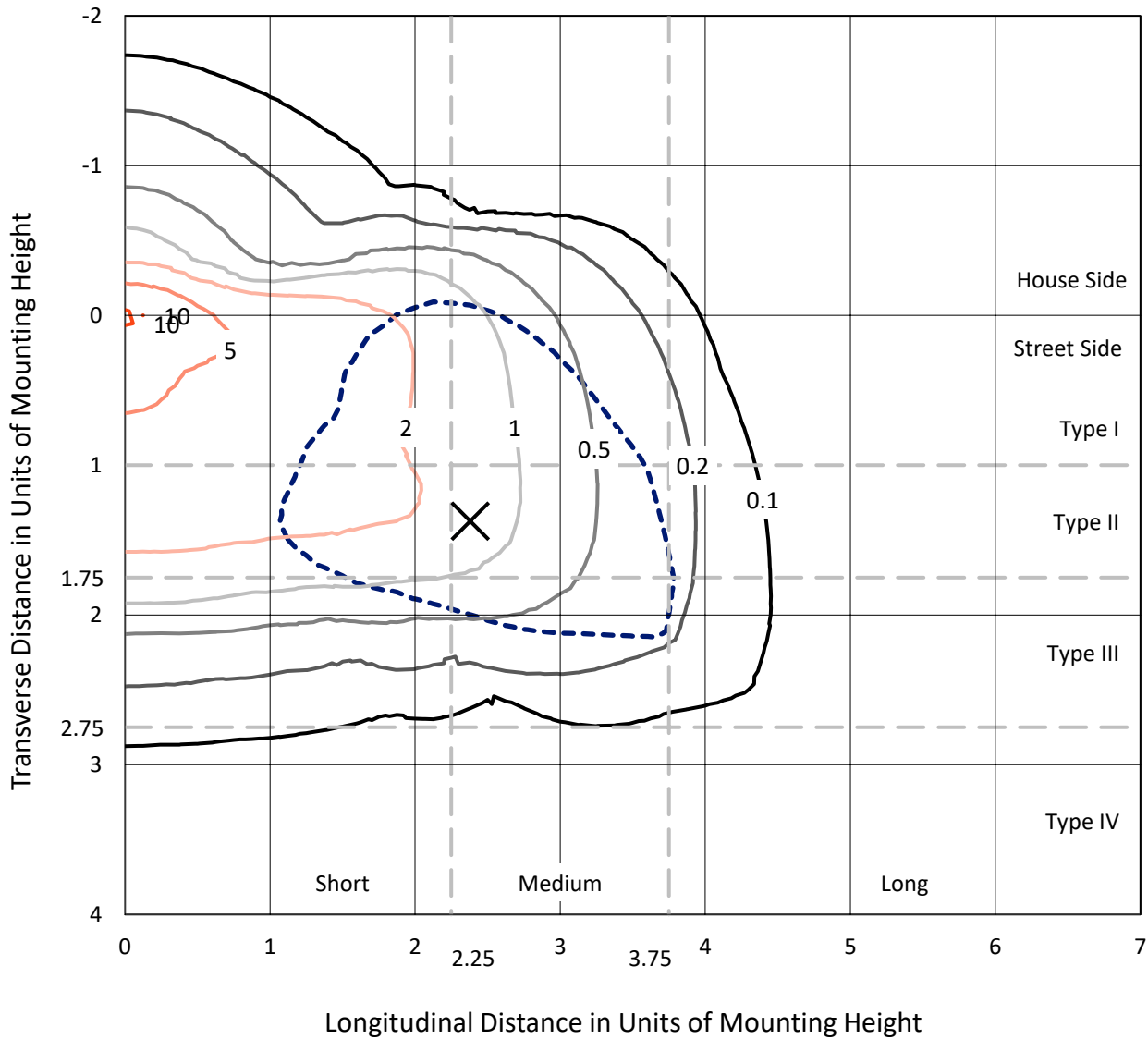


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Iso-Footcandle Lines of Horizontal Illumination

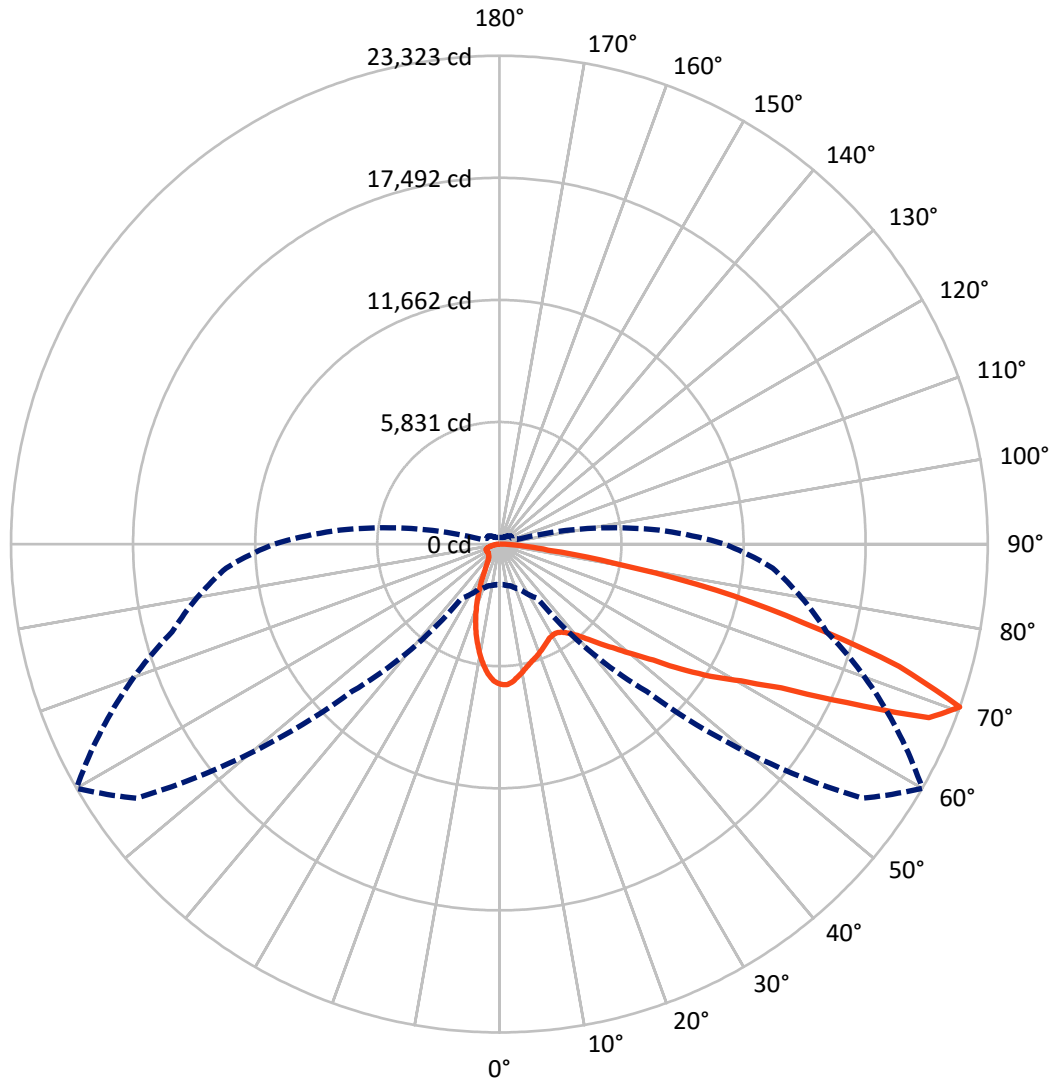
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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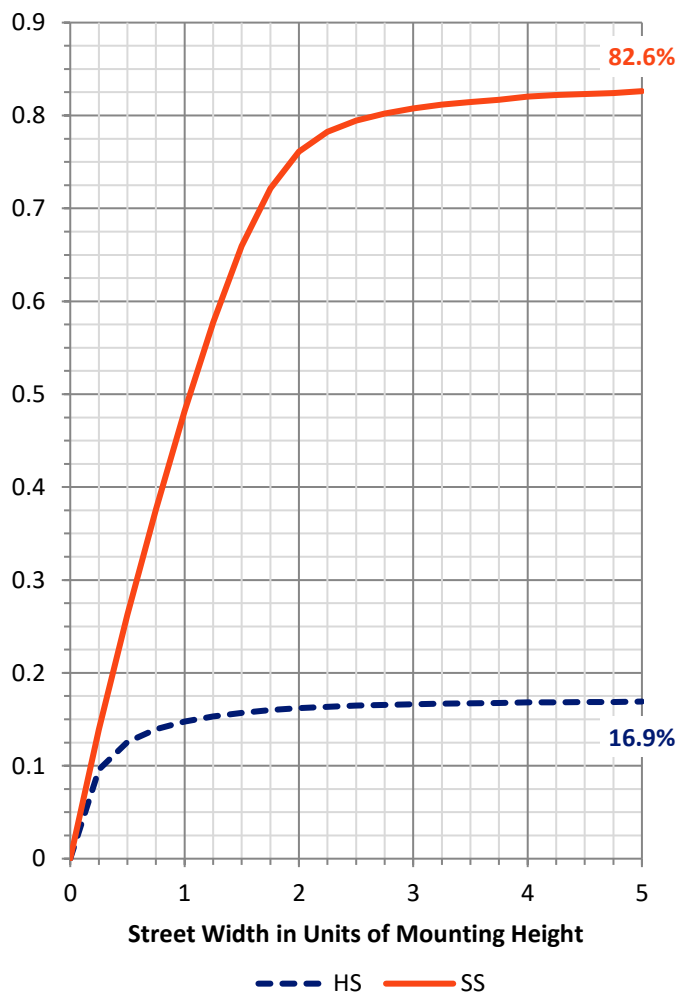
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4140.2	0.0	4140.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20068.0	0.0	20068.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	24208.2	0.0	24208.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.4	2.4
10°-20°	1293.6	5.3
20°-30°	1656.6	6.8
30°-40°	2177.2	9.0
40°-50°	3158.8	13.0
50°-60°	4928.4	20.4
60°-70°	6452.3	26.7
70°-80°	3567.9	14.7
80°-90°	396.0	1.6
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°	24208.2	100.0
0°-180°	24208.2	100.0

Coefficient of Utilization



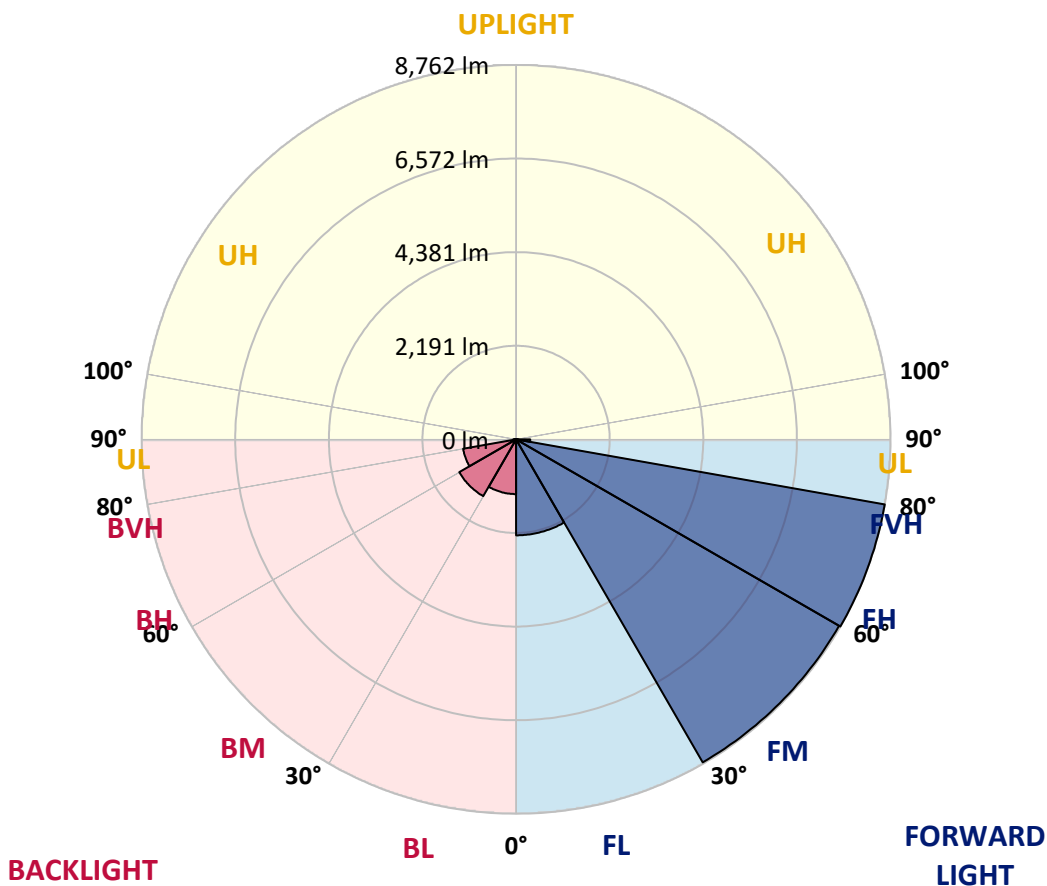
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.7	9.3			
FM (30°-60°)	8729.4	36.1			
FH (60°-80°)	8762.0	36.2			G4/12000
FVH (80°-90°)	329.9	1.4			G3/500
BL (0°-30°)	1280.9	5.3	B3/2500		
BM (30°-60°)	1535.0	6.3	B2/2500		
BH (60°-80°)	1258.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	66.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7
2.5°	6604.8	6611.9	6631.4	6659.8	6688.1	6702.3	6737.7	6727.1	6720.0	6705.8	6688.1
5°	6312.6	6326.8	6344.5	6399.4	6461.4	6511.0	6590.7	6599.5	6603.1	6610.2	6581.8
7.5°	5940.6	5944.2	5986.7	6059.3	6140.8	6225.8	6358.6	6395.8	6427.7	6463.2	6440.1
10°	5529.7	5538.6	5570.5	5675.0	5814.9	5940.6	6119.5	6181.5	6248.8	6326.8	6294.9
12.5°	5193.2	5195.0	5246.3	5357.9	5510.2	5680.3	5903.4	5977.8	6066.4	6188.6	6160.3
15°	4925.7	4925.7	4973.6	5069.2	5244.6	5444.7	5710.4	5806.0	5926.5	6091.2	6041.6
17.5°	4713.2	4715.0	4745.1	4846.0	5001.9	5223.3	5538.6	5667.9	5800.7	6018.6	5944.2
20°	4601.6	4592.8	4598.1	4660.1	4792.9	5007.2	5366.8	5517.3	5696.2	5969.0	5855.6
22.5°	4596.3	4580.4	4557.3	4562.6	4640.6	4817.7	5182.6	5365.0	5589.9	5928.2	5765.3
25°	4686.6	4668.9	4628.2	4582.1	4575.0	4681.3	5009.0	5216.2	5480.1	5910.5	5678.5
27.5°	4839.0	4826.6	4773.4	4704.3	4631.7	4628.2	4877.9	5094.0	5400.4	5928.2	5616.5
30°	5040.9	5019.6	4986.0	4897.4	4787.6	4674.2	4826.6	5028.5	5347.3	5984.9	5589.9
32.5°	5269.4	5257.0	5225.1	5136.5	5019.6	4839.0	4867.3	5042.6	5347.3	6084.1	5595.3
35°	5512.0	5510.2	5510.2	5451.8	5322.5	5097.5	5028.5	5163.1	5428.8	6243.5	5651.9
37.5°	5747.6	5745.8	5802.5	5823.7	5676.7	5434.1	5303.0	5404.0	5607.7	6479.1	5791.9
40°	5938.9	5946.0	6069.9	6176.2	6094.7	5869.8	5685.6	5737.0	5898.1	6813.9	6036.3
42.5°	6131.9	6151.4	6337.4	6525.1	6557.0	6362.2	6176.2	6206.3	6314.4	7256.7	6401.2
45°	6342.7	6351.6	6611.9	6874.1	7028.2	6913.0	6760.7	6801.5	6826.2	7804.0	6944.9
47.5°	6546.4	6569.4	6906.0	7265.5	7557.8	7547.1	7462.1	7449.7	7455.0	8469.9	7587.9
50°	6824.5	6858.1	7253.1	7687.1	8115.7	8312.3	8337.1	8243.2	8204.3	9210.3	8388.5
52.5°	7352.3	7352.3	7706.5	8133.4	8709.0	9196.1	9362.6	9208.5	9084.5	9993.2	9238.6
55°	8013.0	8041.3	8322.9	8668.3	9398.0	10126.0	10689.3	10519.2	10168.5	10845.1	10129.6
57.5°	8307.0	8342.4	8788.8	9325.4	10299.6	11183.4	11964.5	11904.3	11392.4	11730.7	11054.1
60°	7775.6	7850.0	8464.6	9364.4	11116.1	12889.1	13440.0	13264.6	12533.1	12660.6	12056.6
62.5°	6486.2	6567.7	7249.6	8505.4	11002.8	14732.9	15765.6	15119.1	13957.1	13834.9	13392.1
65°	3870.1	3866.6	4686.6	6351.6	9605.3	15244.8	19446.1	18239.9	16157.0	15446.7	14766.6
67.5°	2460.2	2454.9	2626.7	3365.3	6392.3	13990.8	21812.5	22126.0	19145.0	16631.7	14879.9
70°	1941.2	1939.5	2063.5	2400.0	3161.6	9956.0	21153.6	23323.3	20949.9	16180.0	13101.7
72.5°	1415.2	1418.7	1610.0	2010.3	2439.0	4998.4	17129.4	19956.2	19269.0	14283.1	10636.1
75°	1016.7	1022.0	1137.1	1539.2	2249.4	2733.0	11390.7	15005.7	14660.3	11449.1	7316.9
77.5°	646.5	653.6	754.5	1078.7	1817.3	2206.9	6906.0	10593.6	9754.1	6450.8	2601.9
80°	395.0	418.0	503.0	804.1	1452.4	1656.1	3452.1	5581.1	4885.0	1769.4	875.0
82.5°	203.7	221.4	302.9	497.7	1000.7	1454.2	1953.6	2345.1	1512.6	740.4	465.8
85°	63.8	74.4	106.3	201.9	476.5	901.5	1293.0	1165.5	694.3	348.9	216.1
87.5°	15.9	15.9	17.7	17.7	19.5	40.7	249.7	263.9	184.2	109.8	88.6
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°	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7	6698.7
2.5°	6652.7	6610.2	6592.4	6590.7	6546.4	6482.6	6440.1	6410.0	6392.3	6388.8	6388.8
5°	6534.0	6479.1	6406.5	6351.6	6232.9	6112.5	6011.5	5954.8	5889.3	5880.4	5878.7
7.5°	6376.4	6296.7	6158.5	6004.4	5797.2	5597.0	5427.0	5311.9	5196.7	5175.5	5168.4
10°	6206.3	6098.3	5862.7	5591.7	5281.8	4982.4	4722.1	4518.4	4383.7	4288.1	4270.4
12.5°	6038.1	5894.6	5549.2	5145.4	4720.3	4311.1	3919.7	3586.7	3345.8	3205.9	3181.1
15°	5880.4	5680.3	5207.4	4691.9	4139.3	3579.6	3025.2	2593.1	2254.8	2134.3	2106.0
17.5°	5737.0	5487.2	4876.1	4222.6	3533.6	2802.1	2171.5	1787.2	1588.8	1528.6	1514.4
20°	5593.5	5288.8	4539.6	3728.4	2890.6	2070.5	1587.0	1406.3	1332.0	1308.9	1301.8
22.5°	5439.4	5071.0	4173.0	3241.3	2240.6	1549.8	1298.3	1218.6	1195.6	1197.3	1195.6
25°	5285.3	4849.6	3788.6	2711.7	1668.5	1257.6	1133.6	1103.5	1108.8	1124.7	1128.3
27.5°	5157.8	4653.0	3411.4	2130.8	1303.6	1082.2	1023.8	1022.0	1041.5	1062.7	1066.3
30°	5065.7	4477.6	3039.4	1638.4	1073.4	961.8	938.7	949.4	972.4	988.3	993.6
32.5°	5000.1	4327.1	2642.6	1287.7	940.5	876.7	866.1	876.7	890.9	906.9	910.4
35°	4977.1	4217.3	2253.0	1050.3	850.2	814.8	807.7	813.0	820.1	828.9	832.5
37.5°	5028.5	4162.3	1845.6	913.9	795.3	774.0	763.4	759.8	761.6	765.2	766.9
40°	5180.8	4187.1	1512.6	834.2	759.8	740.4	722.7	715.6	713.8	717.3	715.6
42.5°	5442.9	4291.6	1271.7	788.2	731.5	703.2	683.7	676.6	676.6	685.5	685.5
45°	5827.3	4497.1	1098.2	754.5	706.7	671.3	650.0	646.5	653.6	667.7	669.5
47.5°	6390.5	4798.2	993.6	729.7	683.7	642.9	621.7	619.9	634.1	657.1	658.9
50°	7058.3	5232.2	937.0	712.0	667.7	619.9	598.7	600.4	616.4	641.2	646.5
52.5°	7862.4	5823.7	940.5	704.9	658.9	605.8	584.5	581.0	596.9	621.7	627.0
55°	8693.1	6542.9	1009.6	706.7	646.5	598.7	570.3	557.9	572.1	589.8	591.6
57.5°	9607.1	7354.1	1181.4	703.2	630.6	591.6	557.9	529.6	538.4	549.1	554.4
60°	10637.9	8308.8	1551.6	710.3	623.5	575.6	533.1	495.9	494.2	501.3	503.0
62.5°	12015.9	9607.1	1967.8	722.7	639.4	556.2	495.9	457.0	449.9	453.4	455.2
65°	13069.8	10227.0	1836.7	712.0	673.1	542.0	460.5	419.8	405.6	402.1	402.1
67.5°	12641.1	9406.9	1278.8	683.7	689.0	543.8	432.2	380.8	363.1	354.2	352.5
70°	10756.6	7641.0	889.1	655.3	671.3	540.2	402.1	348.9	325.9	313.5	311.7
72.5°	8498.3	5834.4	719.1	598.7	609.3	487.1	357.8	313.5	294.0	278.1	278.1
75°	5469.5	3560.1	600.4	533.1	497.7	379.0	310.0	279.9	260.4	244.4	244.4
77.5°	1840.3	1321.3	465.8	451.7	372.0	285.2	260.4	240.9	224.9	210.8	209.0
80°	747.5	627.0	341.8	341.8	260.4	217.9	203.7	194.8	184.2	166.5	166.5
82.5°	433.9	380.8	239.1	207.2	173.6	150.6	141.7	132.8	132.8	120.4	120.4
85°	209.0	210.8	143.5	127.5	99.2	86.8	83.2	77.9	76.2	69.1	67.3
87.5°	113.4	115.1	72.6	56.7	39.0	33.7	28.3	26.6	24.8	23.0	23.0
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)