

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: P643219

Luminaire Tested: GWS-SA6E-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643219
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-SAGE-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37321.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

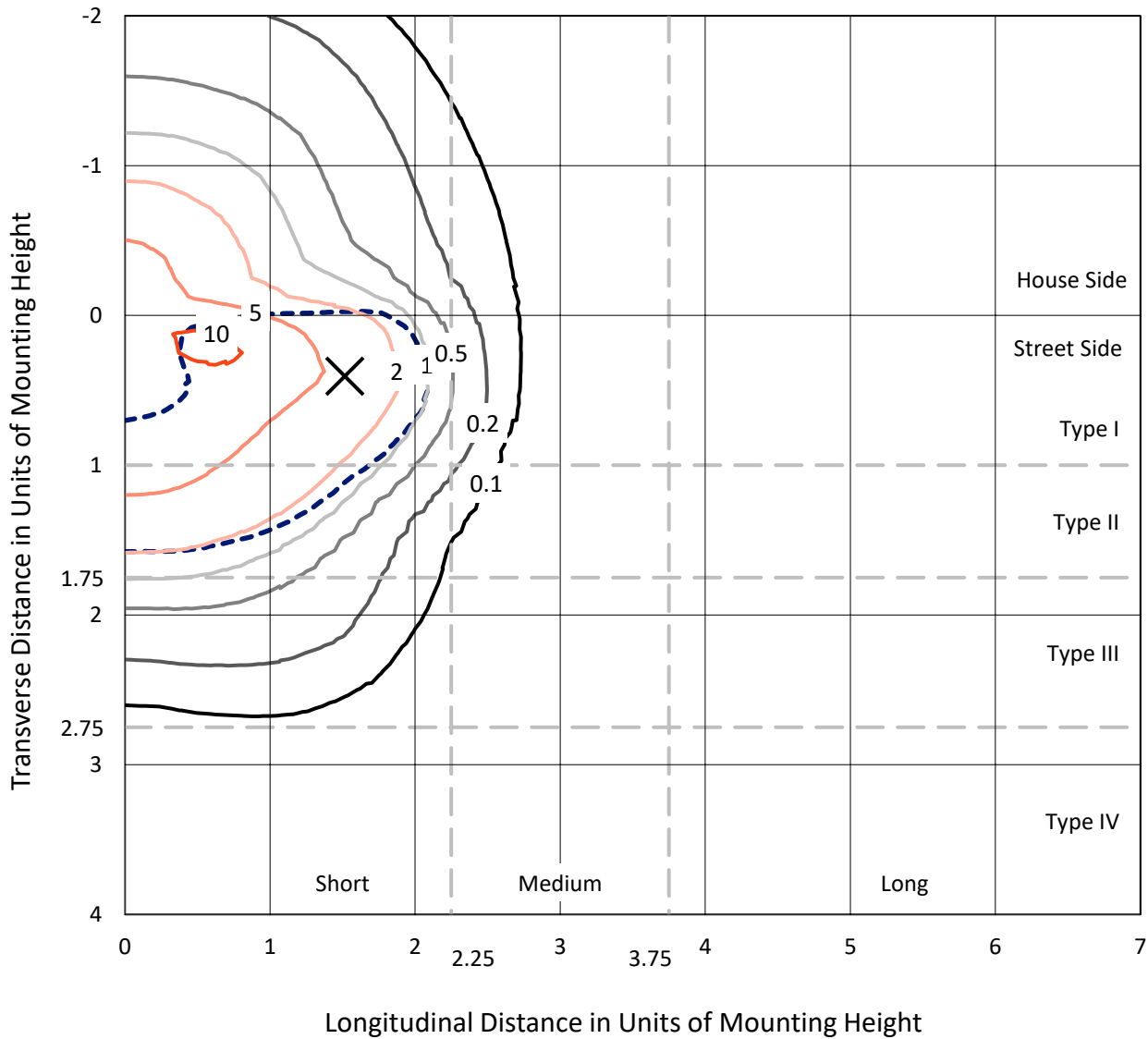
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

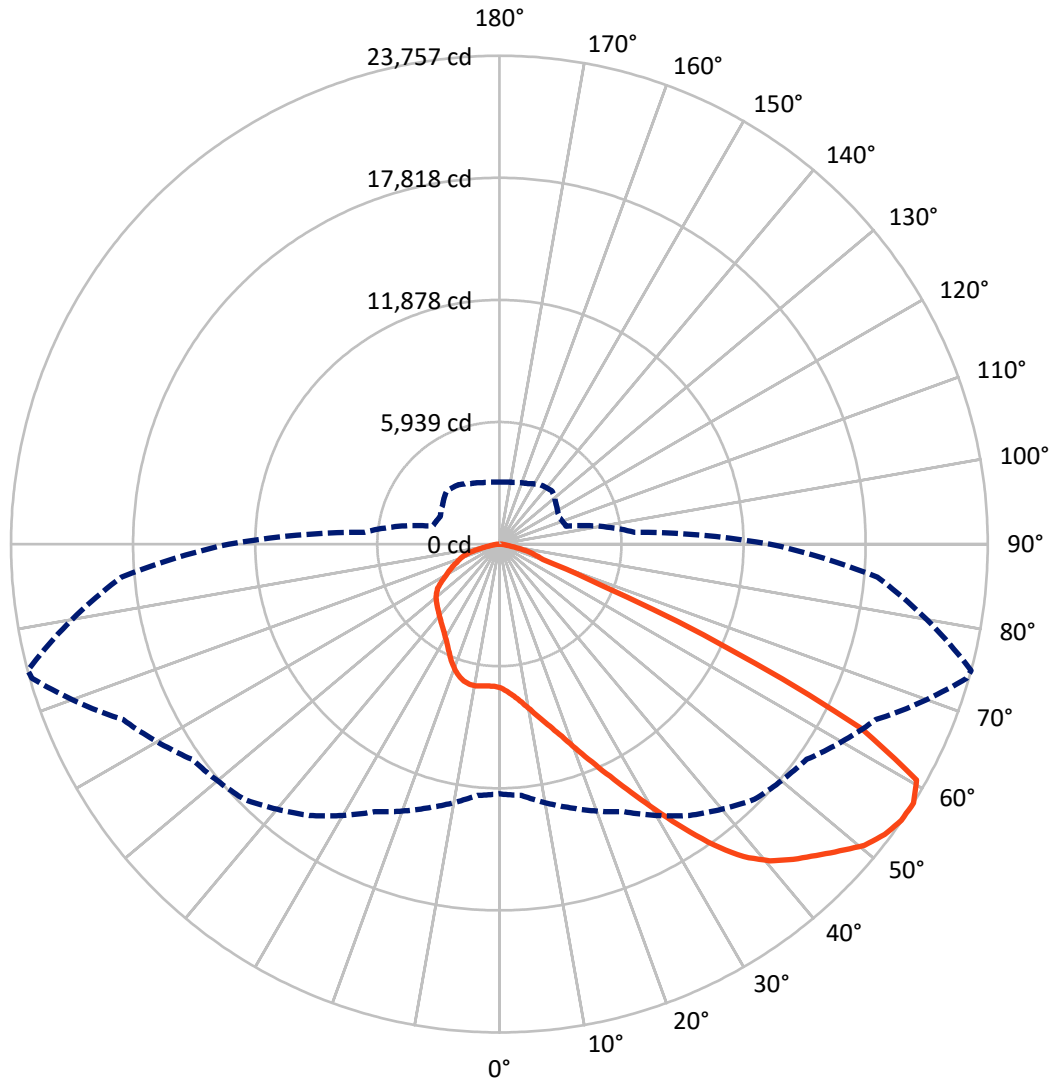
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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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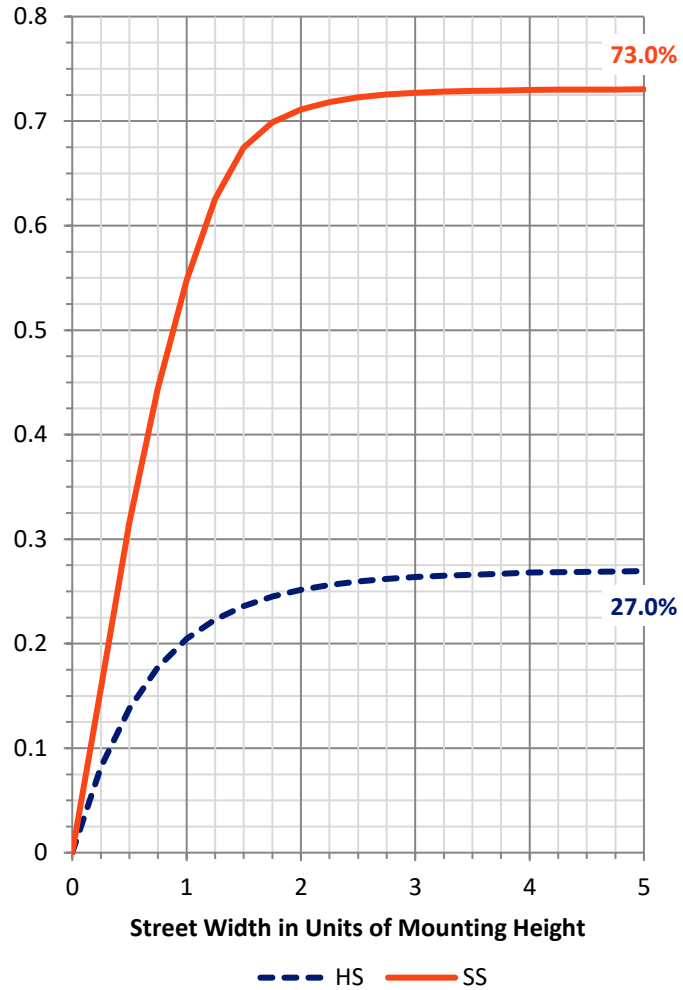
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10096.1	0.0	10096.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	27225.1	0.0	27225.1
	% Fixture	72.9	0.0	72.9
Total	Lumens	37321.2	0.0	37321.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.4	1.9
10°-20°	2226.8	6.0
20°-30°	3949.2	10.6
30°-40°	6045.5	16.2
40°-50°	8417.9	22.6
50°-60°	9645.3	25.8
60°-70°	4955.9	13.3
70°-80°	1247.7	3.3
80°-90°	133.4	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°	37321.2	100.0
0°-180°	37321.2	100.0

Coefficient of Utilization



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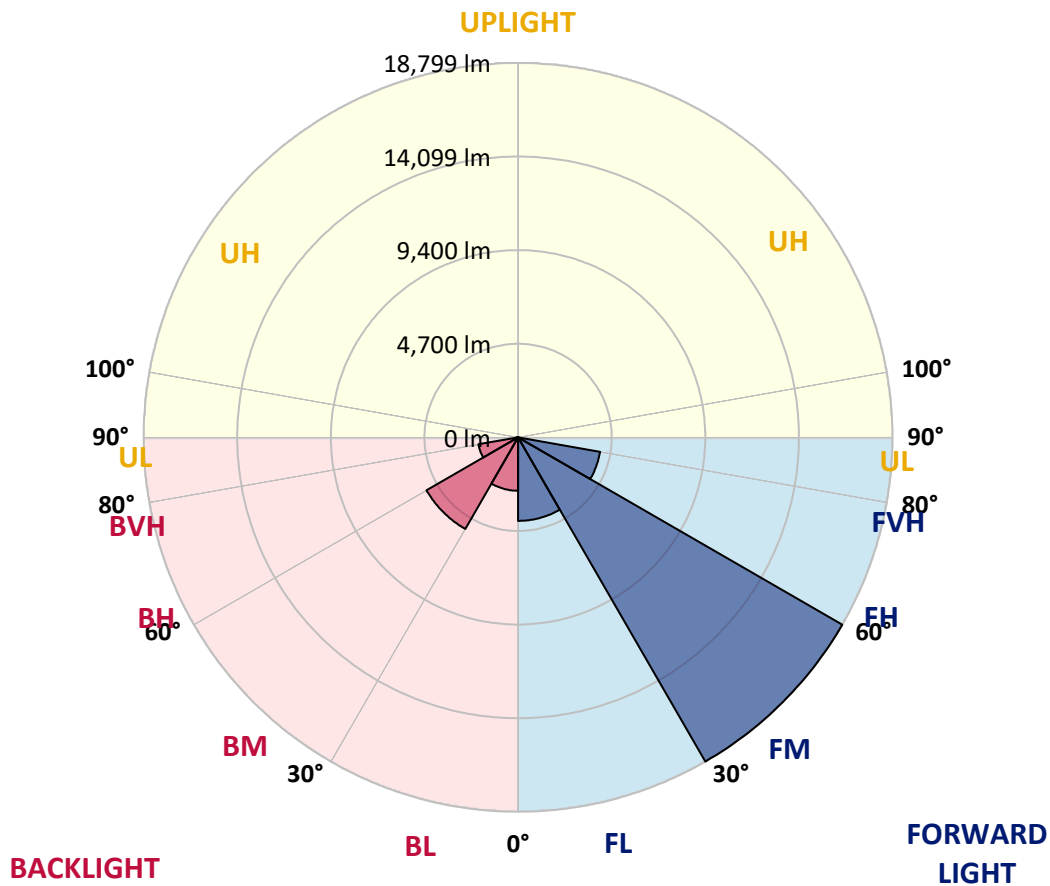
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4193.3	11.2			
FM (30°-60°)	18799.1	50.4			
FH (60°-80°)	4183.3	11.2			G2/5000
FVH (80°-90°)	49.4	0.1			G1/100
BL (0°-30°)	2682.2	7.2	B4/5000		
BM (30°-60°)	5309.6	14.2	B4/8500		
BH (60°-80°)	2020.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4
2.5°	7509.2	7528.5	7509.2	7541.3	7477.1	7448.3	7377.7	7271.8	7188.3	7175.5	7082.4
5°	8093.3	8135.0	8109.3	8096.5	8009.9	7945.7	7839.8	7628.0	7454.7	7429.0	7246.1
7.5°	8468.7	8497.6	8497.6	8507.3	8475.2	8401.4	8289.0	8038.7	7794.8	7756.3	7480.4
10°	8593.9	8616.4	8658.1	8738.3	8802.5	8825.0	8751.1	8510.5	8212.0	8173.5	7788.4
12.5°	8622.8	8648.5	8712.6	8860.3	9036.8	9197.2	9210.0	9033.5	8699.8	8658.1	8144.6
15°	8677.3	8703.0	8789.7	8972.6	9232.5	9540.6	9729.9	9608.0	9238.9	9194.0	8549.0
17.5°	8670.9	8699.8	8828.2	9072.1	9421.8	9867.9	10233.7	10285.1	9903.2	9826.2	9007.9
20°	8654.9	8680.5	8818.5	9117.0	9550.2	10163.1	10824.2	11090.6	10679.8	10609.2	9543.8
22.5°	8783.2	8812.1	8918.0	9165.1	9617.6	10391.0	11369.8	12011.6	11600.8	11501.3	10159.9
25°	9072.1	9113.8	9178.0	9348.0	9739.5	10593.2	11928.1	13054.5	12634.1	12515.4	10830.6
27.5°	9518.1	9569.5	9659.3	9739.5	10012.3	10849.9	12483.3	14222.6	13802.2	13677.1	11539.8
30°	10063.7	10131.0	10246.6	10301.1	10487.3	11228.6	13086.6	15426.0	15182.1	15008.8	12338.9
32.5°	10817.8	10910.9	11020.0	11036.0	11148.3	11803.0	13683.5	16619.8	16616.6	16494.6	13247.1
35°	11799.8	11899.2	11921.7	11944.2	11998.7	12592.4	14405.5	17707.7	18128.1	17986.9	14235.5
37.5°	12871.6	13016.0	13051.3	12951.8	13028.8	13542.3	15217.4	18580.5	19443.8	19293.0	15191.8
40°	14017.2	14075.0	14171.3	14014.0	14110.3	14630.2	16013.3	19138.9	20425.8	20265.3	15945.9
42.5°	14838.8	14944.7	15089.1	15031.3	15085.9	15560.8	16571.7	19408.5	21125.3	20964.9	16488.2
45°	15730.9	15763.0	15856.0	15843.2	15875.3	16318.1	16972.8	19527.2	21751.1	21606.7	16950.3
47.5°	16507.5	16555.6	16616.6	16546.0	16475.4	16764.2	17300.1	19629.9	22473.2	22299.9	17434.9
50°	17255.2	17296.9	17370.7	17165.3	16902.2	16976.0	17460.6	19771.1	23150.3	23028.3	17816.8
52.5°	17393.2	17438.1	17784.7	17826.4	17489.5	17229.5	17743.0	20082.4	23548.2	23471.2	17954.8
55°	15657.1	15737.3	16427.3	17219.9	18051.0	17967.6	18195.5	20246.1	23705.4	23724.7	18201.9
57.5°	12152.8	12268.3	13275.9	14363.8	16112.8	17560.1	18253.2	20204.3	23650.9	23756.8	18455.4
60°	7971.3	8038.7	9232.5	10452.0	12265.1	14267.5	16337.4	19453.4	23166.3	23317.1	18391.2
62.5°	4813.6	4890.6	5850.1	6774.4	7843.0	9181.2	11080.9	15634.6	19418.1	19755.1	14729.7
65°	3359.9	3462.6	4303.4	5063.9	5433.0	5157.0	5612.7	8731.9	12098.2	12239.4	9001.5
67.5°	2435.7	2506.3	3196.2	4101.2	4508.8	3642.3	2775.8	3866.9	5269.3	5320.6	3712.9
70°	1594.9	1675.1	2300.9	3122.4	3680.8	2952.3	2076.3	2092.3	2217.5	2243.1	2156.5
72.5°	876.1	924.2	1421.6	2073.1	2175.8	1765.0	1620.6	1739.3	1826.0	1826.0	1848.4
75°	452.5	494.2	580.8	683.5	824.7	965.9	1168.1	1344.6	1437.7	1444.1	1434.5
77.5°	231.1	247.1	311.3	337.0	369.0	430.0	558.4	715.6	799.1	831.2	824.7
80°	109.1	115.5	131.6	154.0	189.3	240.7	301.7	359.4	410.8	417.2	452.5
82.5°	57.8	64.2	70.6	83.4	102.7	128.4	176.5	211.8	243.9	250.3	279.2
85°	22.5	25.7	28.9	32.1	44.9	54.6	73.8	99.5	121.9	121.9	144.4
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	12.8	16.0	22.5	22.5	38.5
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°	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4	6989.4
2.5°	7060.0	6966.9	6925.2	6857.8	6803.2	6742.3	6694.1	6658.8	6636.4	6623.5	6610.7
5°	7175.5	7034.3	6922.0	6787.2	6694.1	6604.3	6530.5	6479.1	6453.4	6434.2	6421.4
7.5°	7355.2	7165.9	6954.1	6745.5	6581.8	6437.4	6344.3	6289.8	6254.5	6241.7	6232.0
10°	7602.3	7339.2	6989.4	6658.8	6414.9	6257.7	6193.5	6167.8	6171.1	6164.6	6161.4
12.5°	7881.5	7522.1	6979.7	6504.8	6235.2	6142.2	6145.4	6187.1	6235.2	6248.1	6251.3
15°	8183.1	7701.8	6886.7	6305.8	6094.0	6103.7	6187.1	6286.6	6376.4	6411.7	6418.1
17.5°	8510.5	7852.6	6716.6	6087.6	5978.5	6081.2	6235.2	6398.9	6530.5	6588.2	6604.3
20°	8876.3	7981.0	6475.9	5872.6	5869.4	6039.5	6264.1	6479.1	6646.0	6723.0	6735.8
22.5°	9264.6	8061.2	6180.7	5673.6	5757.1	5984.9	6241.7	6466.3	6642.8	6719.8	6735.8
25°	9656.1	8086.9	5856.6	5490.7	5641.6	5898.3	6132.5	6312.3	6479.1	6546.5	6559.3
27.5°	10021.9	8013.1	5548.5	5333.5	5535.7	5769.9	5927.2	6023.4	6139.0	6190.3	6199.9
30°	10394.2	7865.4	5288.6	5208.3	5416.9	5593.4	5664.0	5670.4	5715.4	5715.4	5721.8
32.5°	10769.7	7647.2	5060.7	5086.4	5269.3	5384.8	5394.5	5320.6	5266.1	5176.2	5173.0
35°	11202.9	7425.8	4874.6	4948.4	5096.0	5166.6	5137.7	4996.5	4865.0	4717.3	4710.9
37.5°	11604.0	7198.0	4717.3	4807.2	4900.3	4951.6	4884.2	4714.1	4605.0	4454.2	4431.7
40°	11934.5	6992.6	4566.5	4659.6	4704.5	4749.4	4640.3	4502.3	4518.4	4434.9	4431.7
42.5°	12127.1	6793.6	4425.3	4495.9	4524.8	4556.9	4460.6	4357.9	4444.6	4380.4	4383.6
45°	12268.3	6620.3	4297.0	4322.6	4393.2	4441.4	4351.5	4236.0	4255.2	4008.1	3950.4
47.5°	12428.7	6524.0	4175.0	4149.3	4274.5	4357.9	4219.9	4053.1	3937.5	3693.6	3671.2
50°	12598.8	6488.7	4046.6	3976.0	4126.9	4207.1	4046.6	3838.1	3687.2	3555.7	3542.8
52.5°	12656.6	6485.5	3886.2	3767.5	3918.3	4030.6	3895.8	3684.0	3504.3	3375.9	3369.5
55°	12884.4	6578.6	3680.8	3481.8	3623.0	3854.1	3754.6	3449.8	3305.3	3247.6	3241.2
57.5°	13150.8	6594.6	3356.7	3170.6	3366.3	3639.1	3513.9	3250.8	3093.5	3022.9	3016.5
60°	13041.7	6199.9	3010.1	2933.1	3148.1	3436.9	3321.4	3093.5	2910.6	2843.2	2836.8
62.5°	9938.5	4377.2	2756.6	2727.7	2913.8	3144.9	3122.4	2885.0	2711.7	2663.5	2657.1
65°	5978.5	3074.3	2512.7	2509.5	2641.1	2862.5	2891.4	2698.8	2515.9	2448.5	2448.5
67.5°	2955.6	2352.3	2236.7	2220.7	2304.1	2461.4	2583.3	2426.1	2272.0	2207.8	2198.2
70°	2089.1	2073.1	2034.6	1989.6	2005.7	2069.9	2121.2	1989.6	1826.0	1761.8	1748.9
72.5°	1806.7	1809.9	1784.2	1748.9	1736.1	1691.2	1646.3	1550.0	1450.5	1383.1	1389.5
75°	1402.4	1408.8	1424.8	1412.0	1376.7	1328.6	1280.4	1158.5	1078.2	1014.1	1001.2
77.5°	818.3	850.4	901.8	888.9	895.3	827.9	808.7	690.0	616.1	571.2	561.6
80°	462.1	481.4	503.8	519.9	500.6	471.7	430.0	365.8	343.4	311.3	304.9
82.5°	279.2	298.4	308.1	320.9	314.5	276.0	243.9	202.2	182.9	166.9	163.7
85°	141.2	154.0	163.7	170.1	150.8	125.2	112.3	89.9	77.0	67.4	67.4
87.5°	35.3	38.5	44.9	38.5	35.3	16.0	12.8	3.2	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)