

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: P637645

Luminaire Tested: GWS-SA4D-730-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18993.3 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

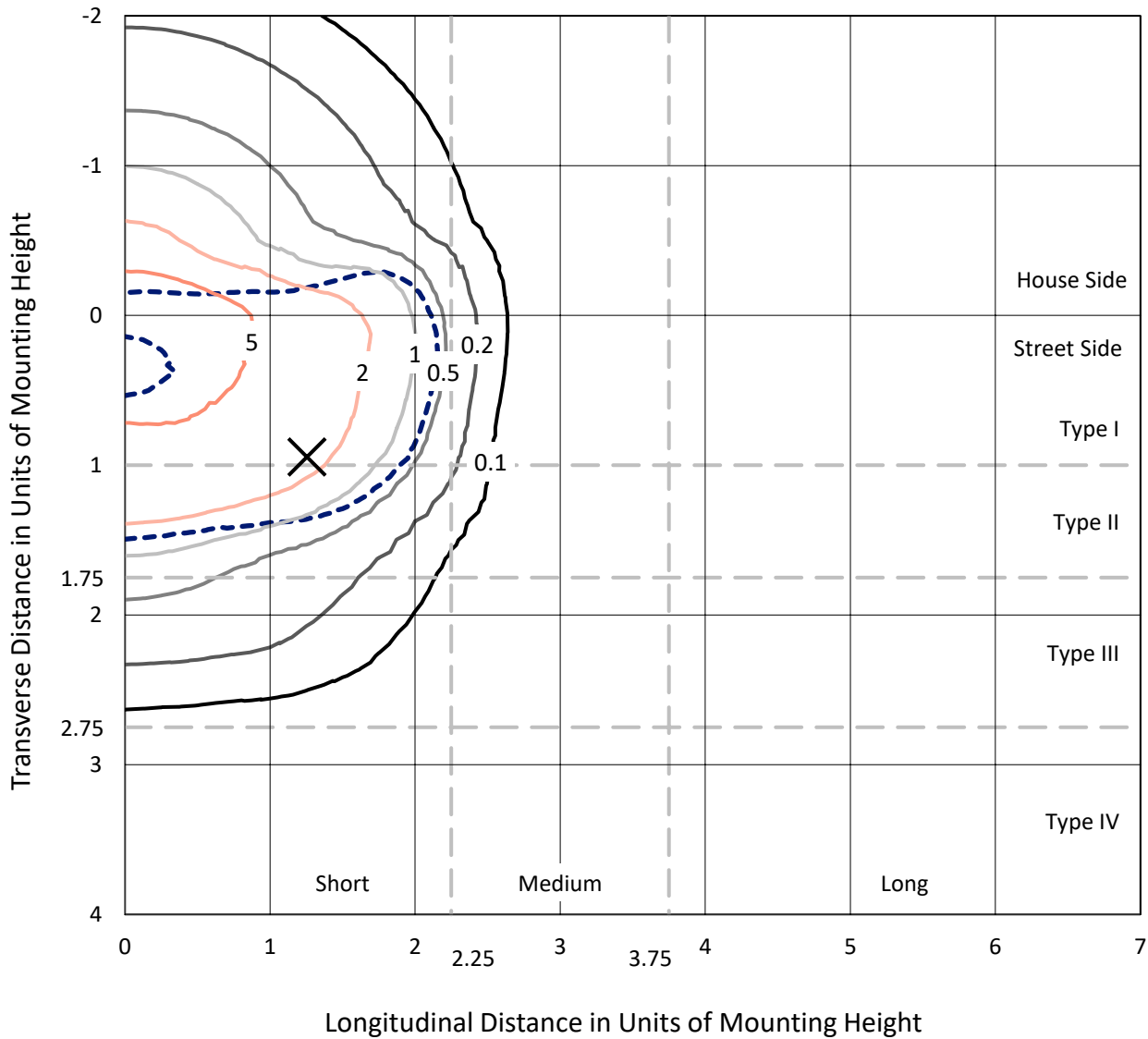
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

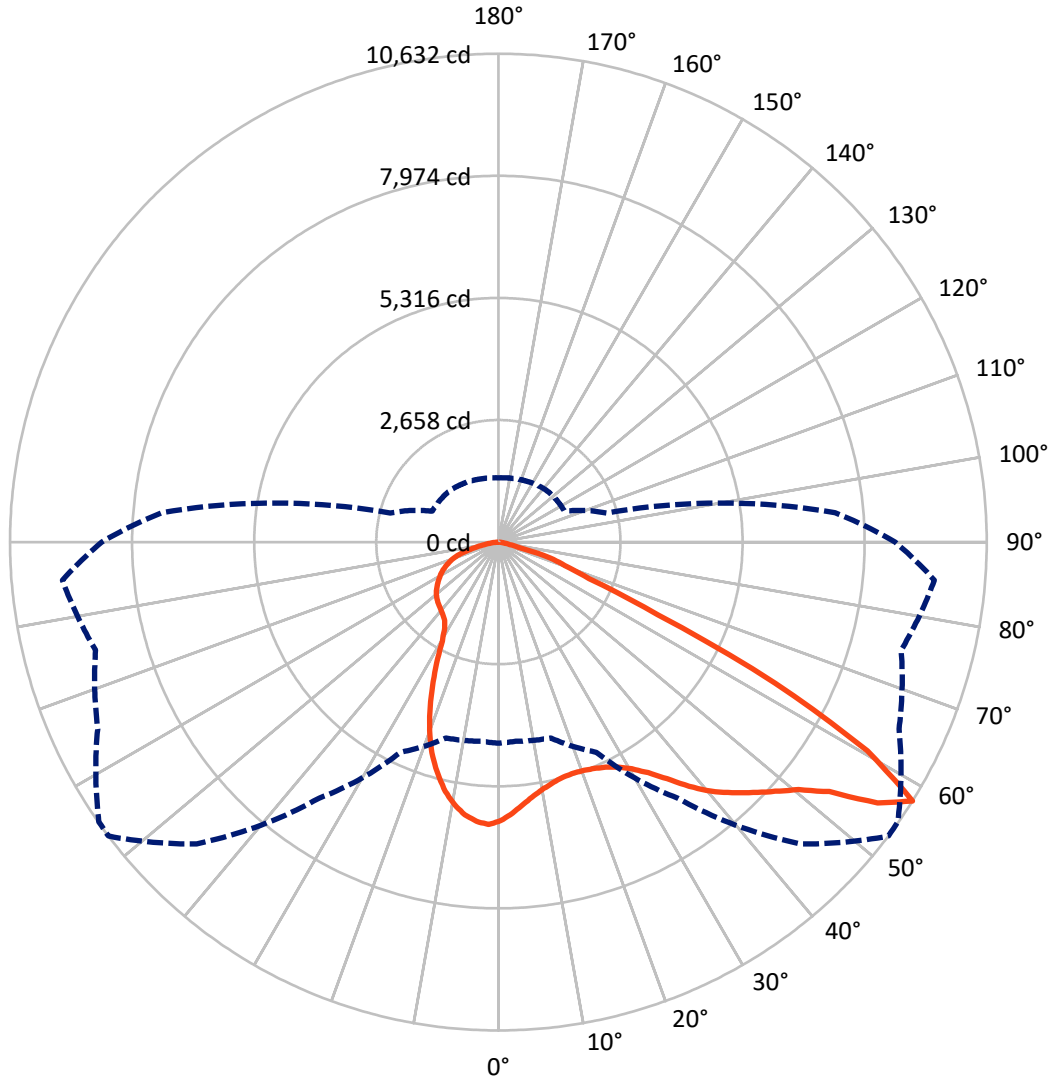
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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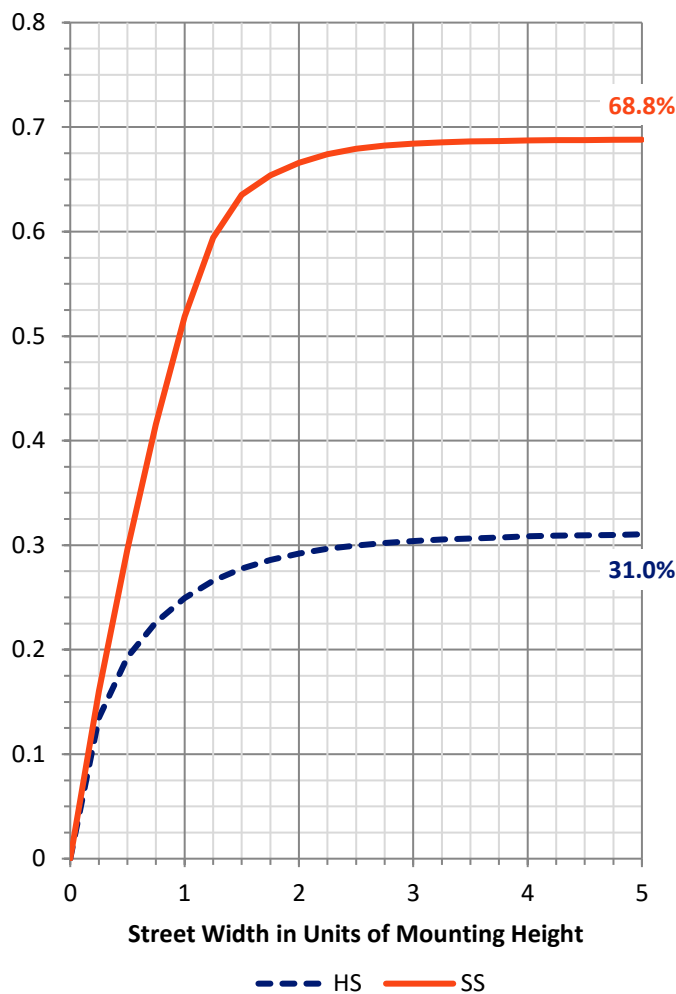
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5938.5	0.0	5938.5
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	13054.8	0.0	13054.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	18993.3	0.0	18993.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.5	2.9
10°-20°	1438.9	7.6
20°-30°	2120.0	11.2
30°-40°	2967.5	15.6
40°-50°	3901.0	20.5
50°-60°	4573.9	24.1
60°-70°	2694.5	14.2
70°-80°	670.3	3.5
80°-90°	78.6	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°	18993.3	100.0
0°-180°	18993.3	100.0

Coefficient of Utilization



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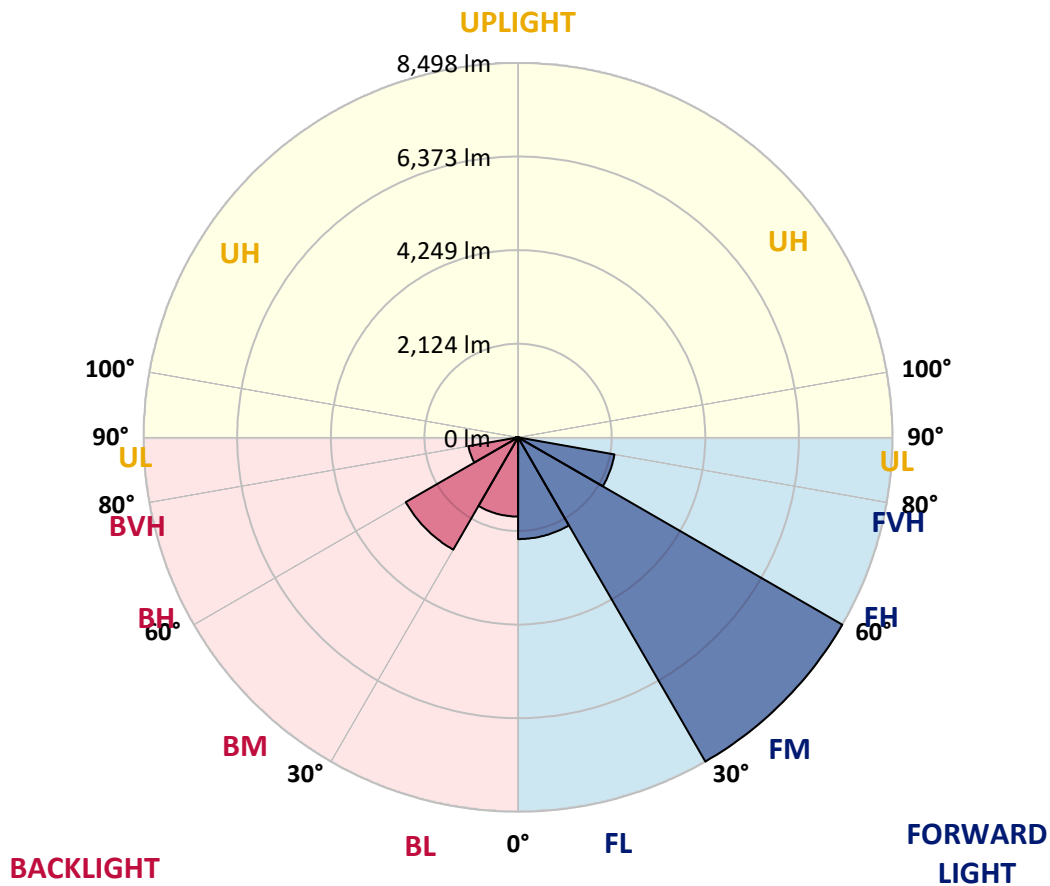
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2309.2	12.2			
FM (30°-60°)	8497.8	44.7			
FH (60°-80°)	2221.5	11.7			G2/5000
FVH (80°-90°)	26.3	0.1			G1/100
BL (0°-30°)	1798.2	9.5	B3/2500		
BM (30°-60°)	2944.6	15.5	B3/5000		
BH (60°-80°)	1143.4	6.0	B3/2500		G3/2500
BVH (80°-90°)	52.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1
2.5°	5716.6	5732.6	5735.8	5785.3	5788.5	5860.5	5908.4	5898.8	5948.4	6009.1	6057.1
5°	5443.2	5444.8	5460.8	5520.0	5551.9	5646.2	5726.2	5726.2	5822.1	5946.8	6053.9
7.5°	5217.8	5216.2	5230.6	5296.1	5348.9	5462.4	5571.1	5583.9	5718.2	5900.4	6074.7
10°	5008.4	5019.6	5035.6	5115.5	5182.6	5323.3	5452.8	5473.6	5643.0	5868.4	6103.4
12.5°	4874.1	4875.7	4899.7	4989.2	5075.5	5225.8	5361.7	5387.3	5582.3	5838.1	6124.2
15°	4787.8	4789.4	4815.0	4914.1	5014.8	5166.7	5305.7	5334.5	5547.1	5833.3	6164.2
17.5°	4749.4	4747.8	4771.8	4870.9	4981.2	5139.5	5288.2	5323.3	5563.1	5870.0	6234.5
20°	4749.4	4751.0	4763.8	4853.3	4965.2	5133.1	5305.7	5348.9	5625.5	5953.2	6343.2
22.5°	4816.6	4823.0	4829.4	4890.1	4978.0	5142.7	5352.1	5409.6	5759.7	6092.2	6485.5
25°	4947.7	4949.3	4955.6	5005.2	5045.2	5169.9	5428.8	5515.2	5969.2	6295.3	6664.5
27.5°	5123.5	5145.9	5152.3	5184.2	5184.2	5237.0	5548.7	5673.4	6252.1	6587.8	6893.1
30°	5369.7	5377.7	5388.9	5424.0	5385.7	5363.3	5724.6	5884.4	6579.8	6941.1	7168.1
32.5°	5585.5	5603.1	5663.8	5721.4	5652.6	5582.3	5983.5	6172.2	6894.7	7308.8	7460.6
35°	5769.3	5812.5	5929.2	6057.1	6009.1	5938.8	6327.2	6523.9	7153.7	7572.6	7719.6
37.5°	5991.5	6025.1	6185.0	6392.8	6435.9	6402.4	6746.1	6886.8	7326.4	7639.7	7860.3
40°	6216.9	6268.1	6474.3	6762.1	6926.7	6950.7	7132.9	7227.3	7385.5	7508.6	7833.1
42.5°	6447.1	6535.1	6818.0	7153.7	7446.3	7500.6	7459.0	7499.0	7366.3	7328.0	7706.8
45°	6728.5	6832.4	7152.1	7580.5	7965.8	8050.5	7778.8	7742.0	7363.1	7259.2	7628.5
47.5°	7061.0	7164.9	7470.2	7969.0	8461.4	8523.7	8106.5	8039.3	7475.0	7364.7	7734.0
50°	7355.1	7427.1	7700.4	8258.3	8923.4	8960.1	8467.8	8386.2	7753.2	7657.3	8063.3
52.5°	7056.2	7048.2	7336.0	8023.4	9163.2	9606.0	9024.1	8945.7	8290.3	8143.2	8573.3
55°	5986.7	5895.6	6153.0	6829.2	8493.3	10179.9	10021.6	9864.9	9006.5	8632.4	9051.3
57.5°	4377.0	4351.4	4413.7	5048.4	6803.6	9291.0	10632.3	10617.9	9625.1	9080.0	9527.6
60°	3422.6	3384.2	3218.0	3235.6	4637.5	7257.6	9227.1	9650.7	10008.8	9348.6	9860.1
62.5°	3038.9	3010.2	2923.8	2685.6	2762.4	4866.1	6763.7	7152.1	8745.9	8256.7	8469.4
65°	2516.2	2508.2	2580.1	2570.5	2314.8	2687.2	3817.4	4209.1	5499.2	5567.9	5499.2
67.5°	1828.8	1814.4	1996.6	2356.3	2228.4	2028.6	2127.7	2263.6	2819.9	2532.2	2279.6
70°	1189.4	1168.6	1274.1	1702.5	1995.0	1768.0	1533.1	1510.7	1550.6	964.0	1042.3
72.5°	797.7	773.7	772.1	936.8	1205.3	1191.0	1187.8	1176.6	1050.3	760.9	844.1
75°	444.4	425.2	420.4	404.4	431.6	439.6	468.4	484.4	524.3	577.1	639.4
77.5°	75.1	73.5	92.7	118.3	163.1	209.4	259.0	273.4	337.3	399.6	439.6
80°	41.6	43.2	56.0	68.7	91.1	124.7	159.9	169.5	207.8	241.4	273.4
82.5°	22.4	22.4	28.8	36.8	49.6	65.5	86.3	94.3	119.9	140.7	163.1
85°	8.0	8.0	11.2	14.4	20.8	27.2	33.6	38.4	52.8	71.9	81.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.4	6.4	8.0	14.4	20.8
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°	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1	6065.1
2.5°	6097.0	6053.9	6113.0	6140.2	6149.8	6156.2	6114.6	6085.9	6076.3	6045.9	6028.3
5°	6119.4	6090.7	6146.6	6146.6	6106.6	6065.1	5980.3	5921.2	5879.6	5830.1	5822.1
7.5°	6157.8	6137.0	6167.4	6105.0	6004.3	5892.4	5745.4	5630.3	5537.5	5476.8	5478.4
10°	6208.9	6183.4	6159.4	6020.3	5836.5	5630.3	5404.9	5237.0	5083.5	5013.2	4974.8
12.5°	6242.5	6205.8	6105.0	5874.8	5604.7	5328.1	5010.0	4760.6	4538.4	4437.7	4429.7
15°	6284.1	6216.9	6015.5	5686.2	5310.5	4933.3	4524.0	4177.1	3876.6	3719.9	3711.9
17.5°	6338.4	6228.1	5908.4	5470.4	5000.4	4444.1	3929.3	3492.9	3173.2	3051.7	3072.5
20°	6415.2	6240.9	5786.9	5230.6	4615.1	3887.8	3246.7	2845.5	2722.4	2714.4	2698.4
22.5°	6501.5	6248.9	5652.6	4962.0	4148.4	3294.7	2682.4	2511.4	2509.8	2549.8	2559.4
25°	6599.0	6255.3	5500.8	4648.7	3643.2	2703.2	2372.3	2321.2	2361.1	2436.3	2445.9
27.5°	6723.7	6268.1	5316.9	4305.0	3106.1	2335.5	2201.3	2188.5	2236.4	2306.8	2303.6
30°	6907.5	6314.5	5121.9	3910.2	2554.6	2161.3	2097.4	2099.0	2118.1	2151.7	2156.5
32.5°	7094.6	6386.4	4931.7	3465.8	2238.0	2062.2	2033.4	2030.2	2030.2	2044.6	2047.8
35°	7272.0	6467.9	4725.5	3002.2	2084.6	2004.6	1985.5	1975.9	1971.1	1967.9	1963.1
37.5°	7371.1	6507.9	4524.0	2545.0	2003.0	1966.3	1947.1	1934.3	1916.7	1903.9	1900.7
40°	7328.0	6461.5	4290.6	2202.9	1953.5	1929.5	1907.1	1889.5	1865.6	1854.4	1848.0
42.5°	7184.1	6317.7	4036.5	2041.4	1913.5	1889.5	1862.4	1833.6	1817.6	1808.0	1806.4
45°	7032.2	6143.4	3729.5	1947.1	1875.2	1846.4	1814.4	1782.4	1764.9	1760.1	1758.5
47.5°	7027.4	6057.1	3403.4	1872.0	1828.8	1800.0	1760.1	1728.1	1708.9	1702.5	1696.1
50°	7238.4	6145.0	3035.7	1806.4	1780.8	1750.5	1705.7	1670.5	1646.6	1638.6	1637.0
52.5°	7676.5	6475.9	2706.4	1740.9	1716.9	1681.7	1645.0	1609.8	1581.0	1566.6	1565.0
55°	8149.6	6896.3	2501.8	1673.7	1641.8	1611.4	1577.8	1539.4	1507.5	1485.1	1481.9
57.5°	8638.8	7355.1	2439.5	1589.0	1565.0	1544.2	1504.3	1462.7	1425.9	1405.2	1400.4
60°	9041.7	7750.0	2556.2	1499.5	1486.7	1459.5	1422.8	1382.8	1357.2	1341.2	1338.0
62.5°	7569.4	6309.7	2063.8	1402.0	1402.0	1373.2	1331.6	1302.9	1285.3	1274.1	1270.9
65°	4803.8	3907.0	1408.4	1304.5	1302.9	1264.5	1229.3	1210.1	1202.1	1184.6	1181.4
67.5°	2092.6	1785.6	1203.7	1205.3	1198.9	1157.4	1122.2	1107.8	1091.8	1072.7	1071.1
70°	1085.4	1106.2	1077.5	1095.0	1083.8	1034.3	1000.7	978.3	944.8	925.6	927.2
72.5°	876.0	898.4	930.4	957.6	933.6	893.6	840.9	813.7	770.5	749.7	751.3
75°	668.2	692.2	722.6	751.3	732.2	682.6	649.0	621.9	572.3	548.3	553.1
77.5°	460.4	473.2	510.0	508.4	502.0	487.6	438.0	406.0	354.9	326.1	329.3
80°	286.1	294.1	311.7	319.7	316.5	297.3	257.4	233.4	203.0	185.4	187.0
82.5°	172.6	177.4	193.4	195.0	193.4	179.0	148.7	131.1	111.9	102.3	102.3
85°	87.9	91.1	100.7	100.7	91.1	76.7	68.7	60.7	49.6	44.8	44.8
87.5°	24.0	24.0	30.4	25.6	20.8	19.2	9.6	8.0	3.2	1.6	1.6
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)