

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: P640777

Luminaire Tested: GWS-SA5E-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33851.8 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

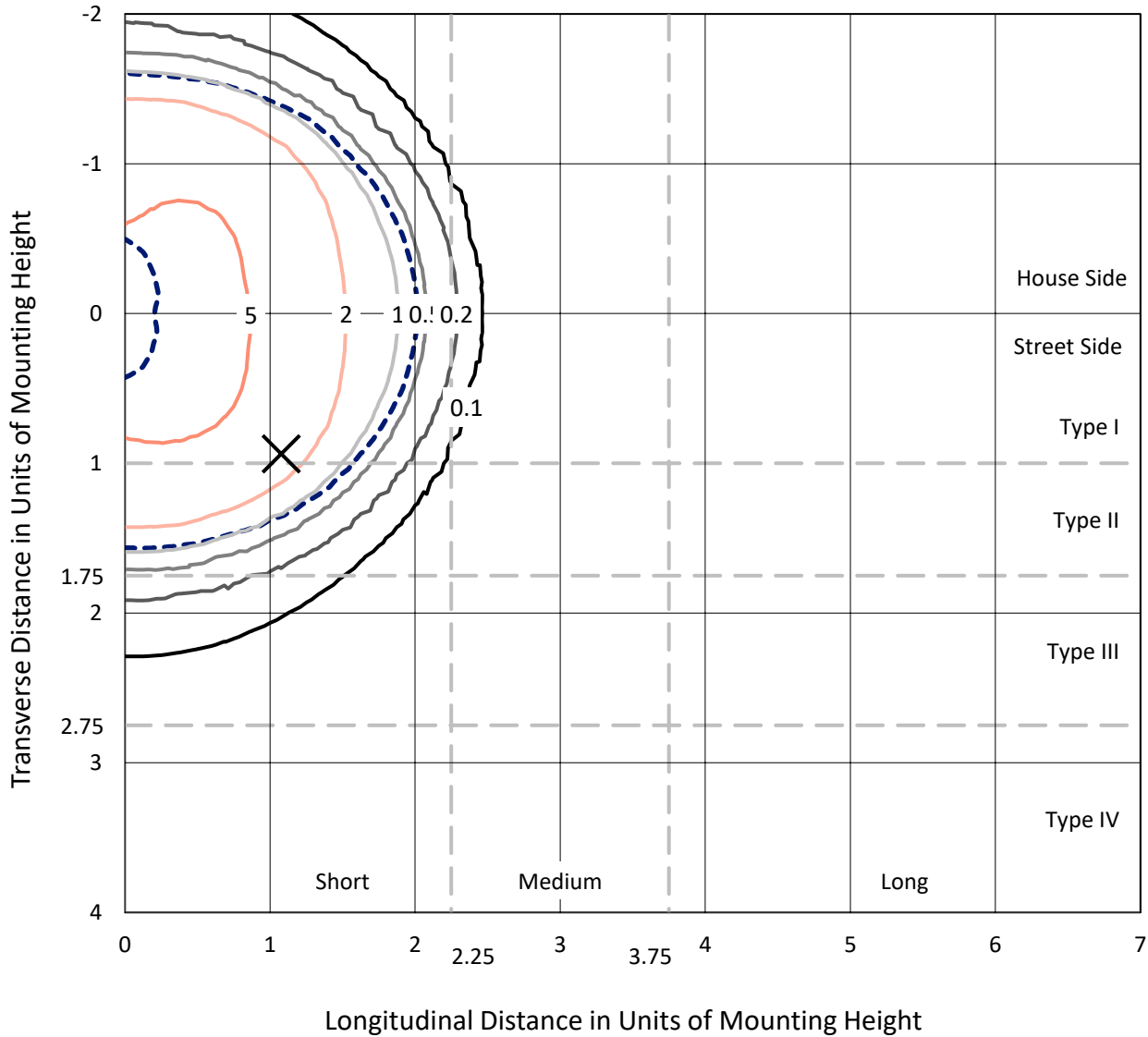
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

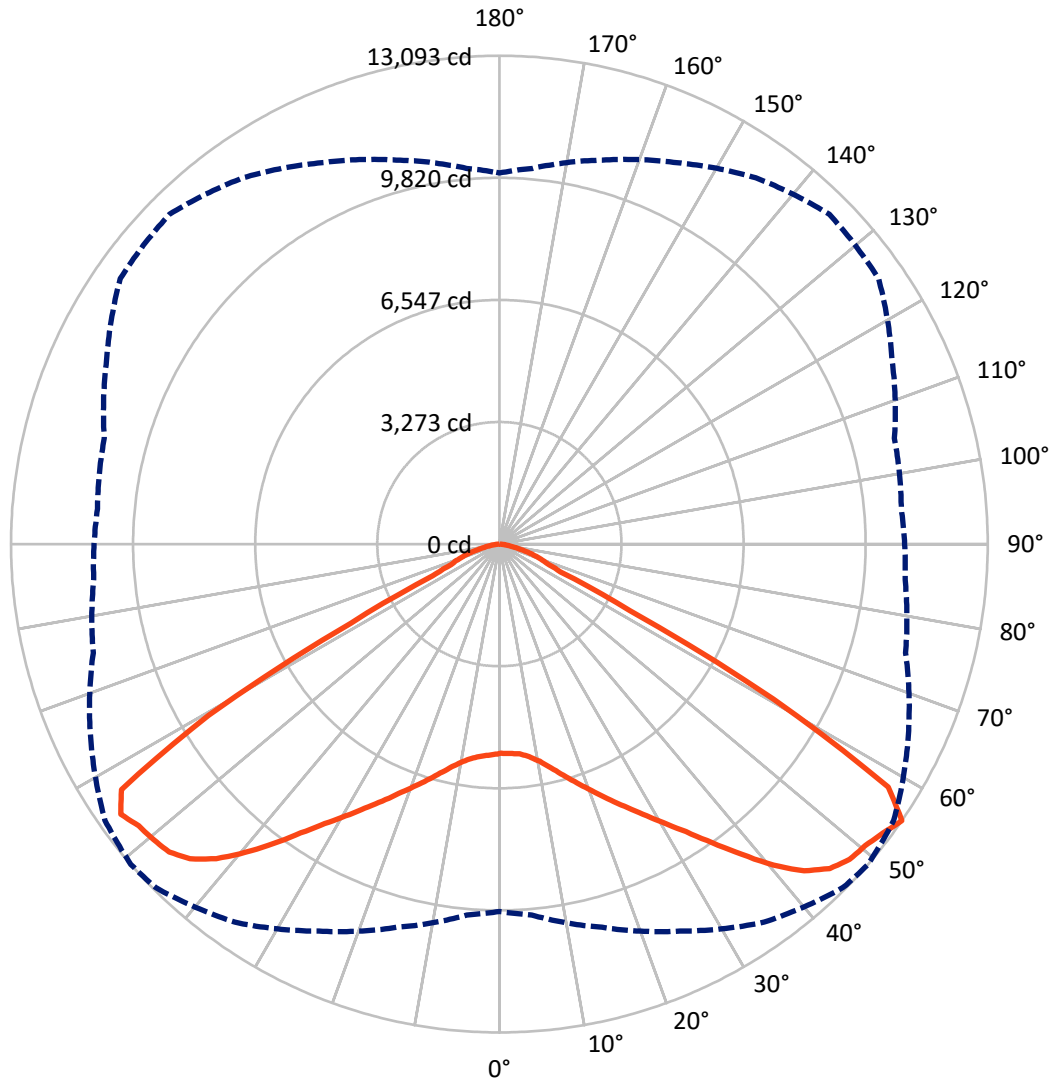
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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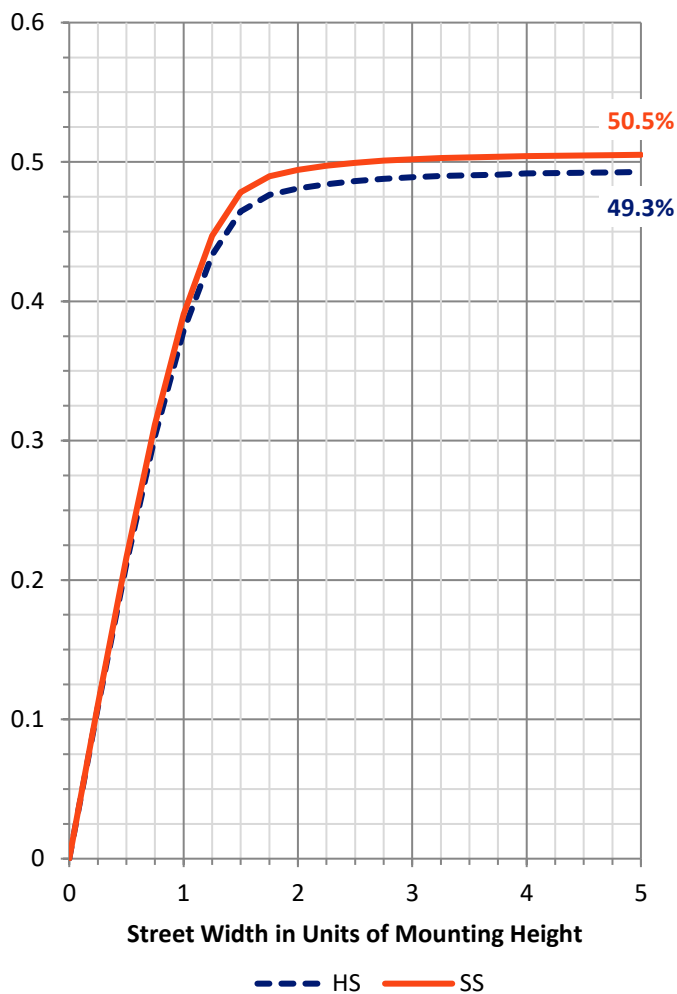
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16759.8	0.0	16759.8
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	17092.0	0.0	17092.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	33851.8	0.0	33851.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.0	1.6
10°-20°	1804.4	5.3
20°-30°	3436.8	10.2
30°-40°	5826.1	17.2
40°-50°	8767.9	25.9
50°-60°	9597.3	28.4
60°-70°	3034.7	9.0
70°-80°	728.3	2.2
80°-90°	109.3	0.3
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°	33851.8	100.0
0°-180°	33851.8	100.0

Coefficient of Utilization



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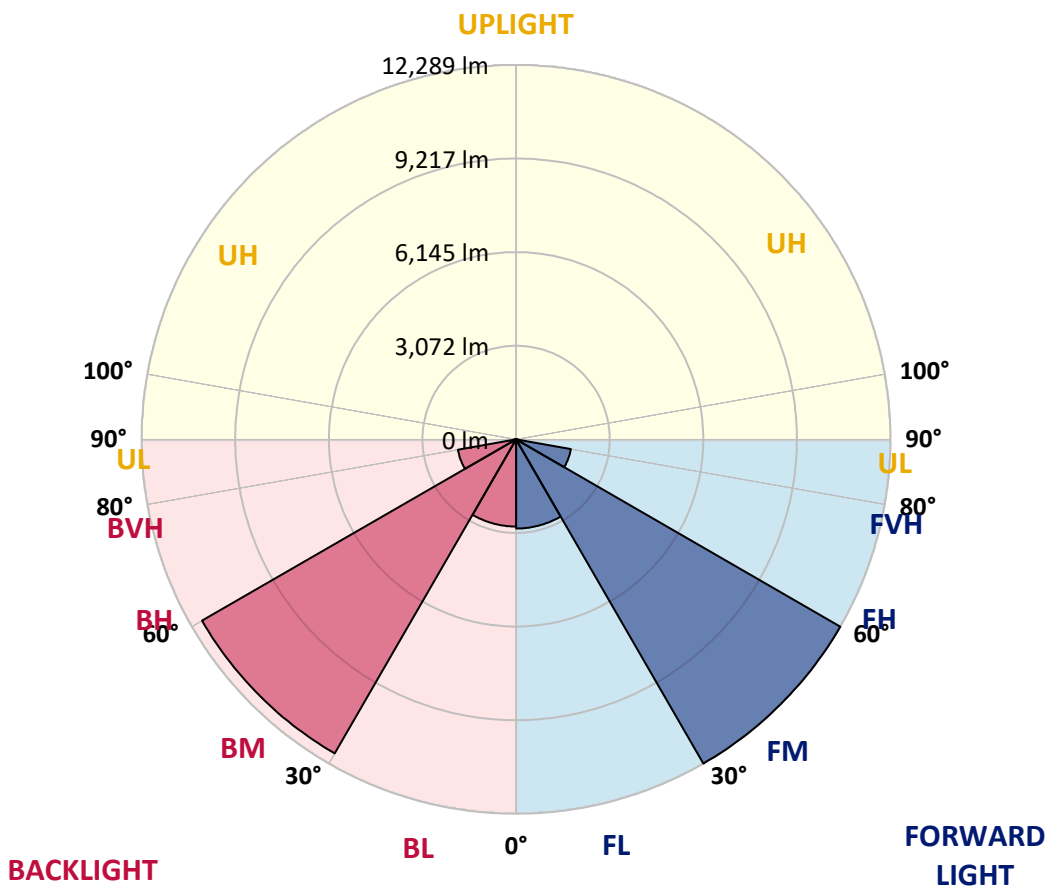
CATALOG NUMBER: GWS-SA5E-750-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.8	8.6			
FM (30°-60°)	12289.1	36.3			
FH (60°-80°)	1825.4	5.4			G2/5000
FVH (80°-90°)	50.6	0.1			G1/100
BL (0°-30°)	2861.4	8.5	B4/5000		
BM (30°-60°)	11902.1	35.2	B5		
BH (60°-80°)	1937.6	5.7	B3/2500		G2/5000
BVH (80°-90°)	58.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8
2.5°	5525.2	5530.7	5541.7	5561.0	5580.2	5607.8	5618.8	5632.5	5629.8	5646.3	5646.3
5°	5497.6	5505.9	5522.4	5549.9	5583.0	5635.3	5649.1	5682.1	5715.1	5756.4	5770.2
7.5°	5530.7	5541.7	5561.0	5605.0	5654.6	5723.4	5750.9	5806.0	5869.3	5943.6	5973.9
10°	5594.0	5607.8	5640.8	5712.4	5792.2	5896.8	5921.6	5990.4	6092.3	6194.1	6254.7
12.5°	5665.6	5687.6	5748.2	5861.0	5979.4	6117.1	6155.6	6240.9	6351.1	6483.2	6565.8
15°	5748.2	5767.4	5861.0	6020.7	6205.1	6386.8	6430.9	6513.5	6637.4	6766.7	6882.4
17.5°	5921.6	5954.6	6064.7	6249.2	6463.9	6678.7	6728.2	6821.8	6920.9	7022.8	7132.9
20°	6158.3	6185.9	6326.3	6554.8	6808.0	7003.5	7053.1	7135.6	7182.4	7234.7	7328.3
22.5°	6395.1	6433.6	6593.3	6863.1	7160.4	7372.4	7410.9	7488.0	7455.0	7438.5	7499.0
25°	6689.7	6742.0	6898.9	7193.5	7496.3	7757.8	7788.1	7854.2	7799.1	7713.8	7711.0
27.5°	7055.8	7102.6	7265.0	7567.9	7867.9	8140.5	8198.3	8286.4	8165.2	8060.6	7986.3
30°	7490.8	7521.1	7700.0	8022.1	8330.4	8589.2	8663.5	8751.6	8660.8	8487.3	8413.0
32.5°	7997.3	8038.6	8245.1	8583.7	8859.0	9117.8	9192.1	9302.2	9203.1	9007.6	8914.0
35°	8605.7	8647.0	8864.5	9233.4	9514.2	9781.2	9833.5	9924.4	9800.5	9574.8	9500.4
37.5°	9266.4	9318.7	9594.0	9943.6	10238.2	10549.3	10552.1	10579.6	10403.4	10122.6	10040.0
40°	10009.7	10078.5	10353.8	10717.2	11072.4	11325.6	11322.9	11245.8	10948.5	10513.5	10386.9
42.5°	10744.8	10799.8	11077.9	11452.3	11807.4	12046.9	11975.3	11788.1	11358.7	10766.8	10598.9
45°	11276.1	11317.4	11609.2	12030.4	12391.0	12539.7	12410.3	12184.5	11603.7	10926.5	10678.7
47.5°	11526.6	11581.7	11876.2	12294.7	12702.1	12787.4	12633.3	12421.3	11746.8	11075.1	10742.0
50°	11391.7	11463.3	11796.4	12184.5	12644.3	12820.5	12710.4	12498.4	11898.2	11221.0	10854.9
52.5°	11042.1	11110.9	11532.1	12002.9	12523.2	12872.8	12870.0	12696.6	12071.7	11262.3	10860.4
55°	9847.3	9982.2	10637.4	11449.5	12374.5	13027.0	13093.0	12908.6	12099.2	11273.3	10918.2
57.5°	6408.9	6645.6	7267.8	8324.9	10180.4	11848.7	12294.7	12338.7	11901.0	11226.5	10929.2
60°	2675.9	2865.8	3358.6	4060.6	5594.0	7578.9	8443.3	9310.5	10356.6	10736.5	10827.3
62.5°	1662.8	1679.3	1728.9	1888.5	2400.6	3369.6	3925.7	4737.8	6293.2	7617.4	8228.6
65°	1500.4	1508.6	1519.6	1508.6	1533.4	1651.8	1800.4	2084.0	2717.2	3375.1	4157.0
67.5°	1321.4	1332.4	1340.7	1332.4	1340.7	1346.2	1362.7	1387.5	1503.1	1596.7	1668.3
70°	1068.1	1084.7	1098.4	1092.9	1126.0	1126.0	1142.5	1161.7	1219.6	1288.4	1337.9
72.5°	814.9	801.1	817.6	823.1	853.4	869.9	894.7	916.7	982.8	1024.1	1087.4
75°	528.6	514.8	539.6	553.3	594.6	616.7	638.7	660.7	707.5	735.0	795.6
77.5°	286.3	283.6	308.3	327.6	371.6	399.2	415.7	432.2	470.8	479.0	517.6
80°	165.2	165.2	181.7	195.5	223.0	253.3	269.8	283.6	311.1	319.3	335.9
82.5°	90.8	90.8	99.1	107.4	129.4	145.9	159.7	170.7	195.5	203.7	212.0
85°	44.0	41.3	46.8	52.3	60.6	68.8	77.1	82.6	101.9	107.4	118.4
87.5°	5.5	5.5	5.5	8.3	11.0	16.5	19.3	19.3	30.3	35.8	41.3
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°	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8	5607.8
2.5°	5662.8	5627.0	5649.1	5657.3	5657.3	5649.1	5613.3	5602.3	5585.7	5561.0	5561.0
5°	5789.5	5761.9	5767.4	5753.7	5720.6	5679.3	5613.3	5580.2	5552.7	5522.4	5519.7
7.5°	6006.9	5971.1	5965.6	5913.3	5825.2	5737.1	5638.0	5577.5	5536.2	5497.6	5494.9
10°	6290.5	6257.5	6216.2	6111.5	5982.2	5852.8	5717.9	5635.3	5574.7	5519.7	5516.9
12.5°	6607.1	6568.5	6491.5	6337.3	6174.9	6048.2	5894.1	5767.4	5676.6	5602.3	5588.5
15°	6951.2	6896.1	6764.0	6582.3	6422.6	6287.7	6122.6	5940.9	5803.2	5684.8	5671.1
17.5°	7215.5	7143.9	7000.7	6830.1	6697.9	6563.0	6348.3	6119.8	5921.6	5772.9	5750.9
20°	7397.2	7339.4	7176.9	7050.3	6973.2	6854.8	6604.3	6345.5	6122.6	5935.4	5924.3
22.5°	7565.1	7496.3	7336.6	7262.3	7262.3	7182.4	6942.9	6637.4	6375.8	6158.3	6130.8
25°	7755.1	7680.7	7559.6	7551.3	7589.9	7554.1	7265.0	6937.4	6631.9	6386.8	6342.8
27.5°	8019.3	7936.8	7865.2	7914.7	7969.8	7931.2	7609.1	7229.2	6907.1	6659.4	6620.8
30°	8440.5	8338.7	8272.6	8333.2	8440.5	8327.7	7978.0	7576.1	7251.3	6978.7	6959.5
32.5°	8930.6	8814.9	8746.1	8842.5	8938.8	8762.6	8415.8	8030.4	7689.0	7402.7	7369.6
35°	9519.7	9373.8	9271.9	9401.3	9500.4	9327.0	8982.9	8616.7	8236.8	7939.5	7895.5
37.5°	10042.8	9866.6	9797.7	9979.4	10111.6	9998.7	9624.3	9280.2	8864.5	8539.6	8520.4
40°	10422.7	10249.2	10199.7	10499.7	10731.0	10703.5	10367.6	9973.9	9583.0	9208.6	9172.8
42.5°	10587.8	10466.7	10477.7	10882.4	11240.3	11416.5	11116.4	10695.2	10318.1	9929.9	9905.1
45°	10623.6	10549.3	10637.4	11143.9	11614.7	11975.3	11719.3	11366.9	10940.2	10565.8	10554.8
47.5°	10662.2	10620.9	10755.8	11292.6	11851.4	12269.9	12126.7	11763.3	11331.1	10965.0	10937.5
50°	10753.0	10736.5	10887.9	11397.2	11964.3	12349.7	12187.3	11826.7	11383.4	11022.8	10956.7
52.5°	10780.5	10753.0	10970.5	11559.6	12151.5	12347.0	11997.3	11526.6	11080.6	10678.7	10609.9
55°	10865.9	10816.3	10965.0	11620.2	12410.3	12506.6	11986.3	11281.6	10659.4	10111.6	9949.2
57.5°	10887.9	10832.9	10929.2	11521.1	12129.5	12044.1	10535.5	9104.0	7931.2	7322.8	7391.7
60°	10769.5	10786.1	10620.9	10554.8	9728.9	8589.2	6450.2	5156.3	4049.6	3581.6	3683.4
62.5°	8198.3	8267.1	7702.7	6697.9	5150.8	4082.6	2700.6	2097.7	1775.7	1693.1	1706.8
65°	4137.7	4231.3	3644.9	3014.5	2240.9	1811.4	1566.4	1516.9	1500.4	1481.1	1481.1
67.5°	1638.0	1665.5	1643.5	1538.9	1431.5	1393.0	1382.0	1376.5	1357.2	1346.2	1348.9
70°	1315.9	1337.9	1304.9	1238.8	1194.8	1192.0	1186.5	1175.5	1161.7	1161.7	1170.0
72.5°	1073.6	1095.7	1048.9	1007.6	974.5	949.8	936.0	927.7	908.5	908.5	916.7
75°	790.1	803.9	765.3	759.8	724.0	699.2	677.2	666.2	641.4	630.4	638.7
77.5°	525.8	523.1	503.8	503.8	490.0	459.7	435.0	410.2	377.2	355.1	360.6
80°	341.4	341.4	333.1	333.1	319.3	294.6	264.3	239.5	220.2	203.7	203.7
82.5°	217.5	214.7	212.0	209.2	203.7	178.9	156.9	140.4	126.6	115.6	118.4
85°	121.1	121.1	115.6	115.6	104.6	90.8	79.8	68.8	60.6	57.8	57.8
87.5°	41.3	41.3	38.5	38.5	33.0	24.8	19.3	16.5	13.8	11.0	13.8
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)