

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: P640782

Luminaire Tested: GWS-SA5E-750-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37736.1 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

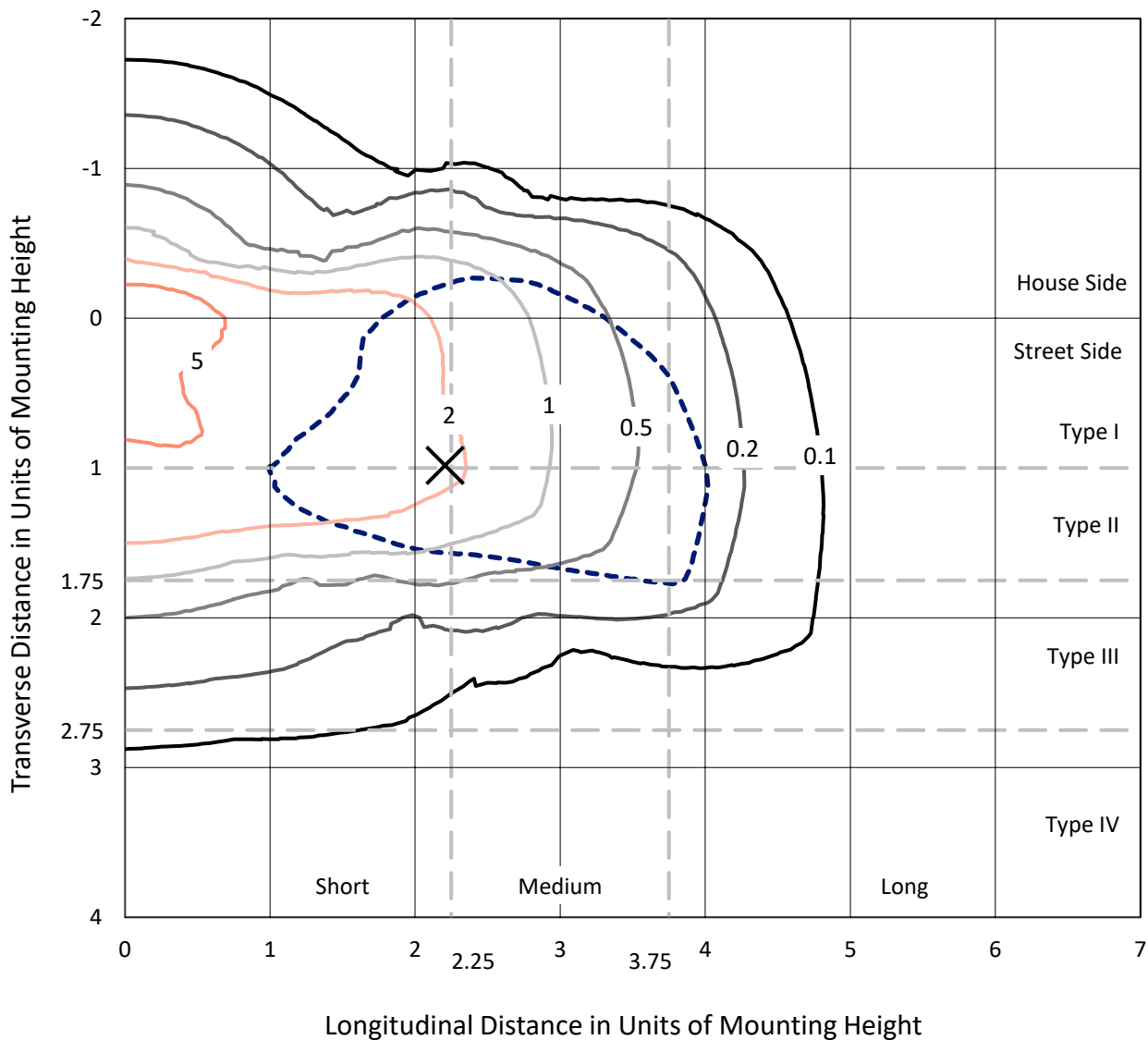
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

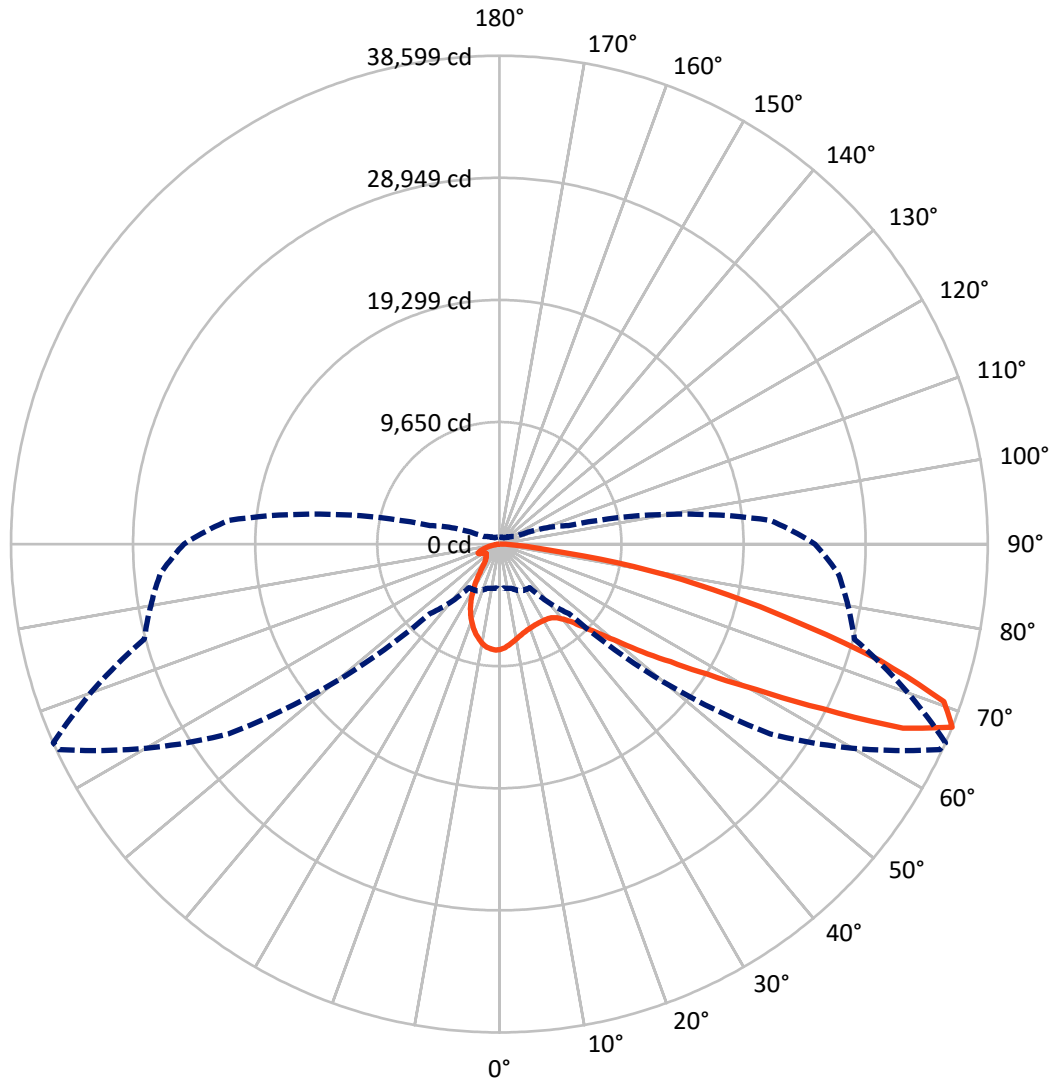
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7657.5	0.0	7657.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	30078.6	0.0	30078.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	37736.1	0.0	37736.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.8	1.9
10°-20°	1798.5	4.8
20°-30°	2472.1	6.6
30°-40°	3379.8	9.0
40°-50°	5121.3	13.6
50°-60°	7961.2	21.1
60°-70°	9692.6	25.7
70°-80°	5904.3	15.6
80°-90°	674.4	1.8
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°	37736.1	100.0
0°-180°	37736.1	100.0

Coefficient of Utilization



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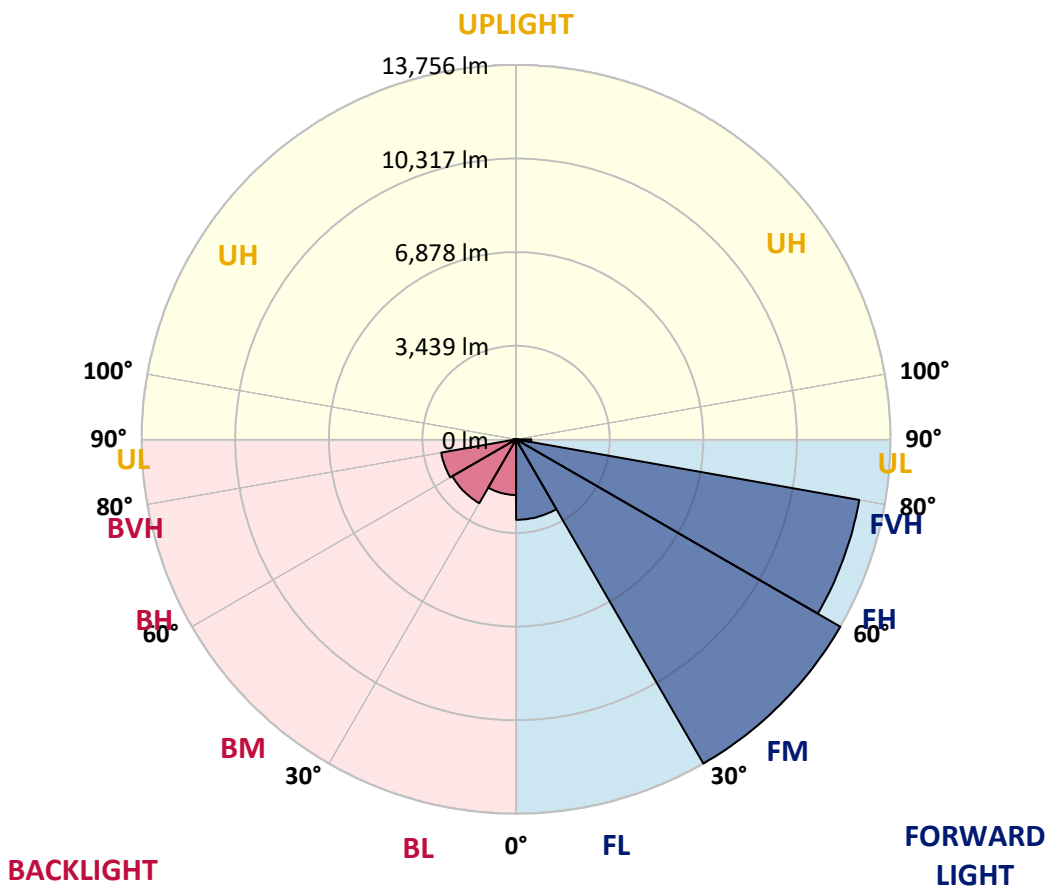
CATALOG NUMBER: GWS-SA5E-750-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2956.8	7.8			
FM (30°-60°)	13756.2	36.5			
FH (60°-80°)	12804.8	33.9			G5
FVH (80°-90°)	560.7	1.5			G4/750
BL (0°-30°)	2045.7	5.4	B3/2500		
BM (30°-60°)	2706.1	7.2	B3/5000		
BH (60°-80°)	2792.1	7.4	B4/5000		G4/5000
BVH (80°-90°)	113.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6
2.5°	7810.0	7837.6	7821.1	7925.7	7931.2	8063.3	8137.6	8201.0	8206.5	8289.1	8344.1
5°	7276.0	7292.5	7292.5	7391.6	7457.7	7633.9	7804.5	7986.2	8000.0	8198.2	8349.6
7.5°	6843.8	6860.3	6849.3	6981.4	7066.8	7262.2	7479.7	7757.7	7785.3	8104.6	8368.9
10°	6505.2	6499.7	6527.2	6648.3	6758.4	6992.4	7234.7	7551.3	7592.6	7997.2	8390.9
12.5°	6273.9	6279.4	6295.9	6422.6	6540.9	6772.2	7022.7	7366.8	7410.9	7873.4	8379.9
15°	6163.8	6152.8	6166.5	6282.2	6395.0	6598.8	6857.5	7212.7	7256.7	7763.2	8382.7
17.5°	6139.0	6130.8	6128.0	6210.6	6295.9	6485.9	6733.7	7094.3	7141.1	7691.7	8399.2
20°	6216.1	6205.1	6174.8	6210.6	6246.4	6406.1	6645.6	7008.9	7061.3	7644.9	8432.2
22.5°	6428.1	6408.8	6362.0	6318.0	6271.2	6367.5	6590.5	6945.6	6997.9	7614.6	8465.2
25°	6750.2	6733.7	6684.1	6585.0	6414.3	6397.8	6579.5	6918.1	6970.4	7592.6	8479.0
27.5°	7193.4	7168.6	7119.1	6975.9	6697.9	6510.7	6620.8	6915.3	6964.9	7567.8	8465.2
30°	7719.2	7702.7	7675.2	7501.7	7130.1	6750.2	6714.4	6937.4	6975.9	7554.0	8437.7
32.5°	8253.3	8236.7	8258.8	8176.2	7719.2	7146.6	6918.1	6997.9	7025.5	7551.3	8412.9
35°	8724.0	8743.3	8903.0	8916.7	8468.0	7683.4	7240.2	7138.3	7143.8	7606.3	8423.9
37.5°	9216.8	9291.1	9500.3	9679.3	9304.9	8393.7	7719.2	7402.6	7397.1	7746.7	8492.8
40°	9869.2	9902.3	10169.3	10505.2	10271.2	9368.2	8399.2	7834.8	7796.3	8033.0	8677.2
42.5°	10505.2	10585.0	11011.7	11397.1	11320.0	10466.6	9255.3	8481.8	8412.9	8539.6	9057.1
45°	11314.5	11391.6	11870.6	12366.1	12506.5	11708.2	10351.0	9401.2	9332.4	9302.1	9753.6
47.5°	12123.9	12203.7	12633.2	13348.9	13841.7	13260.8	11777.0	10615.3	10502.4	10384.0	10805.2
50°	12669.0	12762.6	13172.7	14031.7	15187.9	15198.9	13467.3	12206.5	12063.3	11876.1	12286.3
52.5°	12649.7	12710.3	13101.2	14092.2	16156.9	17426.0	15730.2	14232.6	14117.0	13709.6	14067.4
55°	11655.9	11746.7	12140.4	13379.2	16261.5	19537.5	19055.7	16622.2	16415.7	15686.2	16079.8
57.5°	9660.0	9737.1	10133.5	11661.4	15333.8	20619.4	23278.7	19666.9	19383.3	17838.9	18293.2
60°	7292.5	7198.9	7386.1	8724.0	13114.9	20646.9	27006.2	23796.3	23322.8	20140.4	20520.3
62.5°	5472.8	5379.2	5420.5	5797.7	8891.9	18978.7	29131.4	29445.3	28663.4	22739.2	22664.8
65°	4324.8	4272.5	4390.9	4649.7	5183.8	14452.9	29148.0	35554.0	35061.2	25750.9	24864.4
67.5°	3523.7	3490.7	3611.8	4090.8	4203.7	7766.0	26136.3	38406.0	38598.7	29048.9	26904.3
70°	2838.3	2788.7	2978.7	3609.1	3909.2	4699.2	18722.6	36952.5	37263.6	31014.4	26329.0
72.5°	1960.1	1962.8	2059.2	2923.6	3774.3	4057.8	10590.5	30769.4	31443.9	29233.3	23146.6
75°	1321.4	1332.4	1359.9	1929.8	3476.9	3936.7	5643.5	23295.2	23771.5	24162.4	19132.8
77.5°	798.3	803.9	867.2	1167.2	2397.8	3675.2	3823.8	16886.4	17260.8	15928.4	11859.6
80°	462.5	481.8	539.6	781.8	1618.7	2761.2	2959.4	10353.7	10777.7	7080.5	3768.8
82.5°	203.7	217.5	294.6	454.2	944.3	2348.2	2309.7	4090.8	4030.3	1973.8	1307.6
85°	35.8	44.0	63.3	143.2	346.9	1238.8	1792.2	1805.9	1698.6	748.8	542.3
87.5°	0.0	0.0	0.0	0.0	0.0	8.3	269.8	484.5	481.8	212.0	187.2
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°	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6	8338.6
2.5°	8379.9	8305.6	8371.6	8379.9	8366.1	8355.1	8272.5	8201.0	8192.7	8115.6	8115.6
5°	8410.2	8341.4	8374.4	8311.1	8212.0	8110.1	7933.9	7812.8	7757.7	7658.6	7658.6
7.5°	8451.5	8379.9	8341.4	8184.4	7953.2	7730.2	7446.7	7209.9	7113.6	6973.2	6967.7
10°	8490.0	8399.2	8267.0	7961.5	7592.6	7237.4	6824.5	6488.6	6260.1	6092.2	6092.2
12.5°	8487.3	8368.9	8107.4	7655.9	7146.6	6631.8	6081.2	5574.7	5271.8	5010.3	4993.8
15°	8481.8	8319.3	7903.6	7300.8	6626.3	5913.3	5164.5	4503.8	4055.1	3799.0	3777.0
17.5°	8476.3	8256.0	7675.2	6896.1	5993.1	5021.3	4033.0	3317.3	2942.9	2786.0	2791.5
20°	8476.3	8184.4	7430.1	6430.8	5263.6	3953.2	2959.4	2439.1	2345.5	2353.8	2362.0
22.5°	8451.5	8096.3	7157.6	5924.3	4451.5	2907.1	2183.1	2006.9	2056.4	2133.5	2144.5
25°	8393.7	7950.4	6841.0	5362.7	3485.2	2117.0	1781.1	1748.1	1839.0	1935.3	1962.8
27.5°	8302.8	7782.5	6485.9	4704.7	2565.7	1701.3	1566.4	1563.7	1635.2	1706.8	1731.6
30°	8206.5	7595.3	6111.5	3972.5	1858.2	1481.1	1428.8	1428.8	1464.6	1508.6	1503.1
32.5°	8093.6	7405.4	5709.6	3209.9	1514.1	1357.2	1340.7	1332.4	1337.9	1354.4	1354.4
35°	7997.2	7237.4	5296.6	2403.3	1357.2	1288.4	1271.9	1252.6	1244.3	1233.3	1238.8
37.5°	7961.5	7105.3	4869.9	1811.4	1280.1	1238.8	1211.3	1183.8	1164.5	1159.0	1156.2
40°	8019.3	7050.2	4443.2	1492.1	1225.1	1186.5	1156.2	1120.4	1103.9	1103.9	1103.9
42.5°	8245.0	7091.5	4008.3	1348.9	1186.5	1142.5	1098.4	1065.4	1059.9	1065.4	1068.1
45°	8657.9	7251.2	3556.8	1277.4	1153.5	1098.4	1046.1	1021.3	1021.3	1026.8	1026.8
47.5°	9395.7	7669.6	3110.8	1233.3	1120.4	1062.6	1007.6	982.8	980.0	985.5	985.5
50°	10673.1	8423.9	2708.9	1203.0	1095.7	1035.1	980.0	947.0	938.7	936.0	936.0
52.5°	12283.5	9731.6	2452.9	1181.0	1065.4	1004.8	949.8	905.7	889.2	880.9	880.9
55°	14229.9	11474.2	2452.9	1164.5	1026.8	969.0	905.7	861.7	836.9	825.9	825.9
57.5°	16435.0	13503.1	2876.8	1150.7	996.6	927.7	858.9	814.9	787.3	770.8	770.8
60°	18678.6	15647.6	3925.7	1131.5	969.0	875.4	806.6	765.3	729.5	710.3	707.5
62.5°	21004.8	18009.6	5307.6	1142.5	949.8	825.9	751.5	704.7	674.5	655.2	652.4
65°	23135.6	20258.8	6516.2	1227.8	952.5	781.8	688.2	646.9	622.2	597.4	594.6
67.5°	24944.2	21500.3	5668.3	1401.2	1010.3	729.5	624.9	583.6	561.6	545.1	542.3
70°	23677.9	19606.3	3215.4	1508.6	1090.2	674.5	553.3	525.8	503.8	492.8	490.0
72.5°	20247.8	16600.1	2150.0	1332.4	993.8	602.9	487.3	465.2	448.7	435.0	432.2
75°	16401.9	13164.5	1643.5	1092.9	773.6	490.0	418.4	401.9	385.4	371.6	368.9
77.5°	9704.1	7606.3	1211.3	864.4	545.1	382.7	346.9	333.1	316.6	305.6	302.8
80°	3097.0	2642.8	768.1	594.6	360.6	294.6	267.0	256.0	239.5	225.7	223.0
82.5°	1181.0	1021.3	407.4	302.8	239.5	201.0	178.9	167.9	156.9	143.2	140.4
85°	523.1	490.0	225.7	162.4	129.4	99.1	88.1	82.6	68.8	57.8	55.1
87.5°	184.4	184.4	96.4	46.8	27.5	13.8	8.3	2.8	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)