

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: P640837

Luminaire Tested: GWS-SA5E-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640837
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-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37218.9 lumens
Efficiency: N/A
Efficacy: 138.1 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

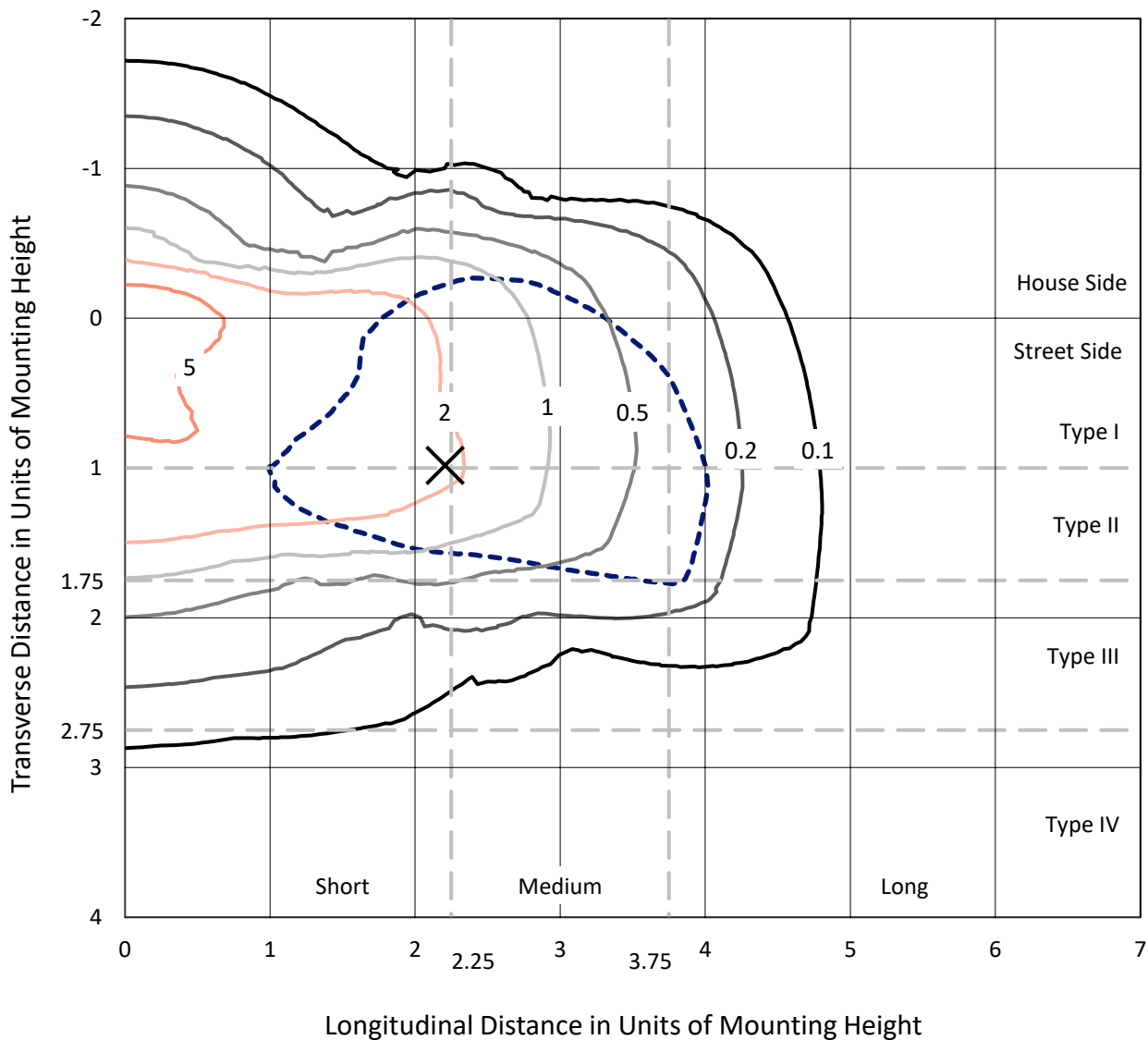


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Iso-Footcandle Lines of Horizontal Illumination

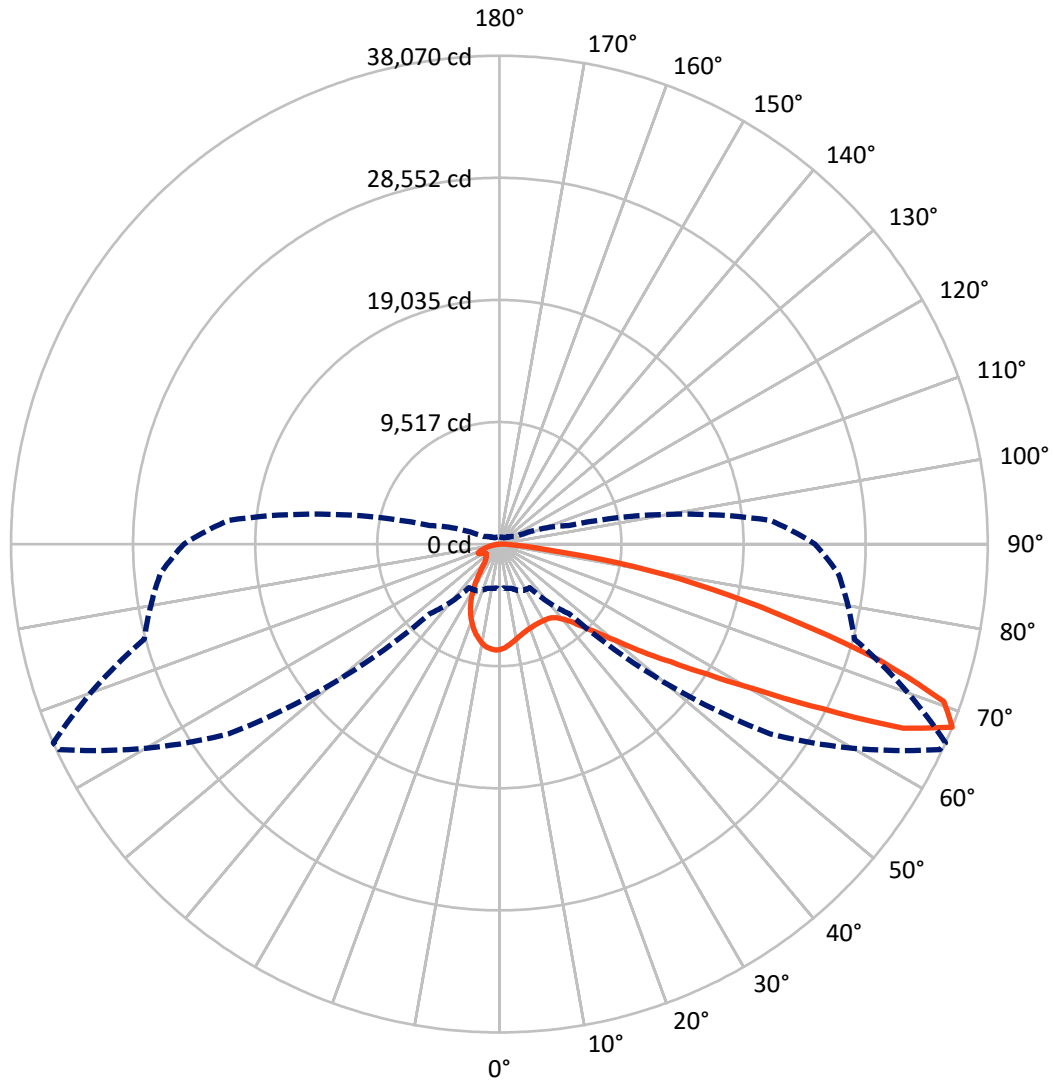
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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	7552.6	0.0	7552.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	29666.3	0.0	29666.3
	% Fixture	79.7	0.0	79.7
Total	Lumens	37218.9	0.0	37218.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.8	1.9
10°-20°	1773.9	4.8
20°-30°	2438.2	6.6
30°-40°	3333.5	9.0
40°-50°	5051.1	13.6
50°-60°	7852.1	21.1
60°-70°	9559.8	25.7
70°-80°	5823.3	15.6
80°-90°	665.2	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°	37218.9	100.0
0°-180°	37218.9	100.0

Coefficient of Utilization



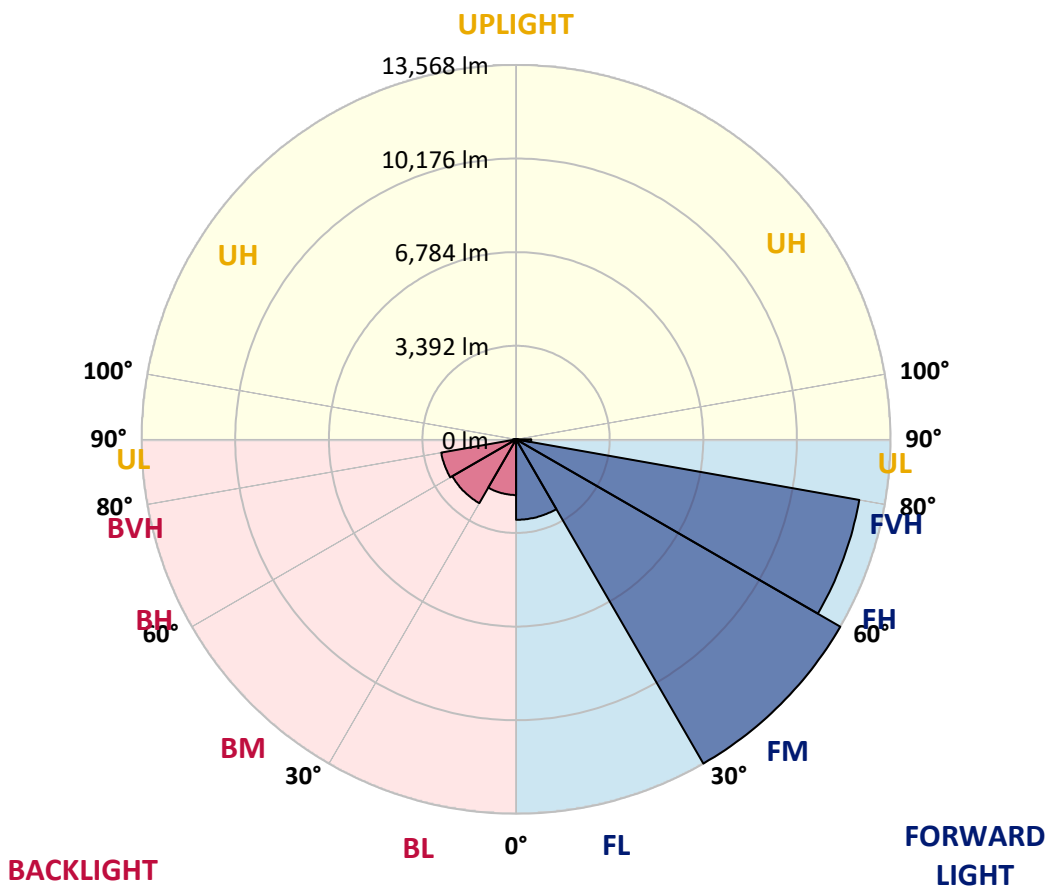
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.3	7.8			
FM (30°-60°)	13567.7	36.5			
FH (60°-80°)	12629.3	33.9			G5
FVH (80°-90°)	553.0	1.5			G4/750
BL (0°-30°)	2017.6	5.4	B3/2500		
BM (30°-60°)	2669.0	7.2	B3/5000		
BH (60°-80°)	2753.8	7.4	B4/5000		G4/5000
BVH (80°-90°)	112.1	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°	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3
2.5°	7703.0	7730.2	7713.9	7817.0	7822.5	7952.8	8026.1	8088.6	8094.0	8175.4	8229.8
5°	7176.3	7192.5	7192.5	7290.3	7355.5	7529.2	7697.6	7876.8	7890.4	8085.8	8235.2
7.5°	6750.0	6766.3	6755.4	6885.7	6969.9	7162.7	7377.2	7651.4	7678.6	7993.5	8254.2
10°	6416.0	6410.6	6437.7	6557.2	6665.8	6896.6	7135.5	7447.8	7488.5	7887.6	8275.9
12.5°	6187.9	6193.4	6209.6	6334.5	6451.3	6679.4	6926.5	7265.9	7309.3	7765.5	8265.0
15°	6079.3	6068.5	6082.0	6196.1	6307.4	6508.3	6763.5	7113.8	7157.2	7656.8	8267.8
17.5°	6054.9	6046.7	6044.0	6125.5	6209.6	6397.0	6641.4	6997.1	7043.2	7586.2	8284.1
20°	6130.9	6120.0	6090.2	6125.5	6160.8	6318.3	6554.5	6912.9	6964.5	7540.1	8316.6
22.5°	6340.0	6321.0	6274.8	6231.4	6185.2	6280.2	6500.2	6850.4	6902.0	7510.2	8349.2
25°	6657.7	6641.4	6592.5	6494.7	6326.4	6310.1	6489.3	6823.3	6874.9	7488.5	8362.8
27.5°	7094.8	7070.4	7021.5	6880.3	6606.1	6421.4	6530.0	6820.6	6869.4	7464.1	8349.2
30°	7613.4	7597.1	7570.0	7398.9	7032.4	6657.7	6622.4	6842.3	6880.3	7450.5	8322.1
32.5°	8140.1	8123.9	8145.6	8064.1	7613.4	7048.6	6823.3	6902.0	6929.2	7447.8	8297.6
35°	8604.4	8623.5	8780.9	8794.5	8351.9	7578.1	7141.0	7040.5	7045.9	7502.1	8308.5
37.5°	9090.5	9163.8	9370.1	9546.6	9177.4	8278.6	7613.4	7301.2	7295.7	7640.6	8376.4
40°	9734.0	9766.5	10029.9	10361.2	10130.4	9239.8	8284.1	7727.4	7689.4	7922.9	8558.3
42.5°	10361.2	10439.9	10860.8	11240.9	11164.9	10323.2	9128.5	8365.5	8297.6	8422.5	8933.0
45°	11159.4	11235.5	11707.9	12196.6	12335.1	11547.7	10209.1	9272.4	9204.5	9174.6	9619.9
47.5°	11957.7	12036.5	12460.0	13166.0	13652.0	13079.1	11615.6	10469.8	10358.5	10241.7	10657.1
50°	12495.3	12587.6	12992.2	13839.3	14979.7	14990.6	13282.7	12039.2	11898.0	11713.3	12117.9
52.5°	12476.3	12536.0	12921.6	13899.1	15935.5	17187.2	15514.6	14037.5	13923.5	13521.7	13874.6
55°	11496.1	11585.7	11974.0	13195.8	16038.6	19269.7	18794.6	16394.3	16190.7	15471.2	15859.4
57.5°	9527.6	9603.6	9994.6	11501.6	15123.6	20336.8	22959.7	19397.3	19117.7	17594.5	18042.5
60°	7192.5	7100.2	7284.9	8604.4	12935.2	20363.9	26636.0	23470.1	23003.1	19864.4	20239.1
62.5°	5397.8	5305.5	5346.2	5718.2	8770.1	18718.5	28732.2	29041.7	28270.6	22427.5	22354.2
65°	4265.6	4214.0	4330.7	4586.0	5112.7	14254.8	28748.5	35066.7	34580.7	25397.9	24523.6
67.5°	3475.4	3442.9	3562.3	4034.8	4146.1	7659.6	25778.0	37879.7	38069.7	28650.7	26535.6
70°	2799.4	2750.5	2937.8	3559.6	3855.6	4634.8	18466.0	36446.0	36752.9	30589.4	25968.1
72.5°	1933.2	1935.9	2031.0	2883.5	3722.5	4002.2	10445.3	30347.7	31012.9	28832.6	22829.3
75°	1303.3	1314.2	1341.3	1903.4	3429.3	3882.7	5566.1	22976.0	23445.7	23831.3	18870.6
77.5°	787.4	792.8	855.3	1151.2	2364.9	3624.8	3771.4	16655.0	17024.3	15710.1	11697.1
80°	456.2	475.2	532.2	771.1	1596.5	2723.3	2918.8	10211.8	10630.0	6983.5	3717.1
82.5°	200.9	214.5	290.5	448.0	931.3	2316.1	2278.0	4034.8	3975.0	1946.8	1289.7
85°	35.3	43.4	62.4	141.2	342.1	1221.8	1767.6	1781.2	1675.3	738.5	534.9
87.5°	0.0	0.0	0.0	0.0	0.0	8.1	266.1	477.9	475.2	209.1	184.6
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°	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3	8224.3
2.5°	8265.0	8191.7	8256.9	8265.0	8251.5	8240.6	8159.2	8088.6	8080.4	8004.4	8004.4
5°	8294.9	8227.0	8259.6	8197.2	8099.4	7999.0	7825.2	7705.7	7651.4	7553.7	7553.7
7.5°	8335.6	8265.0	8227.0	8072.3	7844.2	7624.3	7344.6	7111.1	7016.1	6877.6	6872.2
10°	8373.7	8284.1	8153.7	7852.3	7488.5	7138.2	6731.0	6399.7	6174.3	6008.7	6008.7
12.5°	8370.9	8254.2	7996.2	7551.0	7048.6	6540.9	5997.9	5498.3	5199.6	4941.7	4925.4
15°	8365.5	8205.3	7795.3	7200.7	6535.5	5832.2	5093.7	4442.1	3999.5	3747.0	3725.2
17.5°	8360.1	8142.9	7570.0	6801.6	5911.0	4952.5	3977.8	3271.8	2902.5	2747.8	2753.2
20°	8360.1	8072.3	7328.3	6342.7	5191.4	3899.0	2918.8	2405.7	2313.3	2321.5	2329.6
22.5°	8335.6	7985.4	7059.5	5843.1	4390.5	2867.2	2153.1	1979.4	2028.2	2104.3	2115.1
25°	8278.6	7841.5	6747.3	5289.2	3437.4	2088.0	1756.7	1724.1	1813.7	1908.8	1935.9
27.5°	8189.0	7675.9	6397.0	4640.3	2530.6	1678.0	1544.9	1542.2	1612.8	1683.4	1707.9
30°	8094.0	7491.2	6027.7	3918.0	1832.8	1460.8	1409.2	1409.2	1444.5	1487.9	1482.5
32.5°	7982.7	7303.9	5631.3	3165.9	1493.4	1338.6	1322.3	1314.2	1319.6	1335.9	1335.9
35°	7887.6	7138.2	5224.0	2370.4	1338.6	1270.7	1254.4	1235.4	1227.3	1216.4	1221.8
37.5°	7852.3	7007.9	4803.2	1786.6	1262.6	1221.8	1194.7	1167.5	1148.5	1143.1	1140.4
40°	7909.4	6953.6	4382.3	1471.6	1208.3	1170.2	1140.4	1105.1	1088.8	1088.8	1088.8
42.5°	8132.0	6994.3	3953.3	1330.4	1170.2	1126.8	1083.4	1050.8	1045.3	1050.8	1053.5
45°	8539.3	7151.8	3508.0	1259.8	1137.7	1083.4	1031.8	1007.3	1007.3	1012.8	1012.8
47.5°	9267.0	7564.5	3068.2	1216.4	1105.1	1048.1	993.8	969.3	966.6	972.0	972.0
50°	10526.8	8308.5	2671.8	1186.5	1080.6	1020.9	966.6	934.0	925.9	923.2	923.2
52.5°	12115.2	9598.2	2419.2	1164.8	1050.8	991.0	936.7	893.3	877.0	868.9	868.9
55°	14034.8	11316.9	2419.2	1148.5	1012.8	955.7	893.3	849.9	825.4	814.6	814.6
57.5°	16209.7	13318.0	2837.4	1135.0	982.9	915.0	847.1	803.7	776.5	760.3	760.3
60°	18422.6	15433.2	3871.9	1115.9	955.7	863.4	795.6	754.8	719.5	700.5	697.8
62.5°	20716.9	17762.8	5234.9	1126.8	936.7	814.6	741.2	695.1	665.2	646.2	643.5
65°	22818.5	19981.1	6426.9	1211.0	939.5	771.1	678.8	638.1	613.6	589.2	586.5
67.5°	24602.4	21205.7	5590.6	1382.0	996.5	719.5	616.3	575.6	553.9	537.6	534.9
70°	23353.4	19337.6	3171.3	1487.9	1075.2	665.2	545.8	518.6	496.9	486.0	483.3
72.5°	19970.2	16372.6	2120.6	1314.2	980.2	594.6	480.6	458.9	442.6	429.0	426.3
75°	16177.1	12984.1	1621.0	1077.9	763.0	483.3	412.7	396.4	380.1	366.6	363.8
77.5°	9571.1	7502.1	1194.7	852.6	537.6	377.4	342.1	328.5	312.2	301.4	298.7
80°	3054.6	2606.6	757.5	586.5	355.7	290.5	263.4	252.5	236.2	222.6	219.9
82.5°	1164.8	1007.3	401.8	298.7	236.2	198.2	176.5	165.6	154.8	141.2	138.5
85°	515.9	483.3	222.6	160.2	127.6	97.7	86.9	81.5	67.9	57.0	54.3
87.5°	181.9	181.9	95.0	46.2	27.2	13.6	8.1	2.7	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)