

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: P641171

Luminaire Tested: GWS-SA5F-735-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40335.6 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

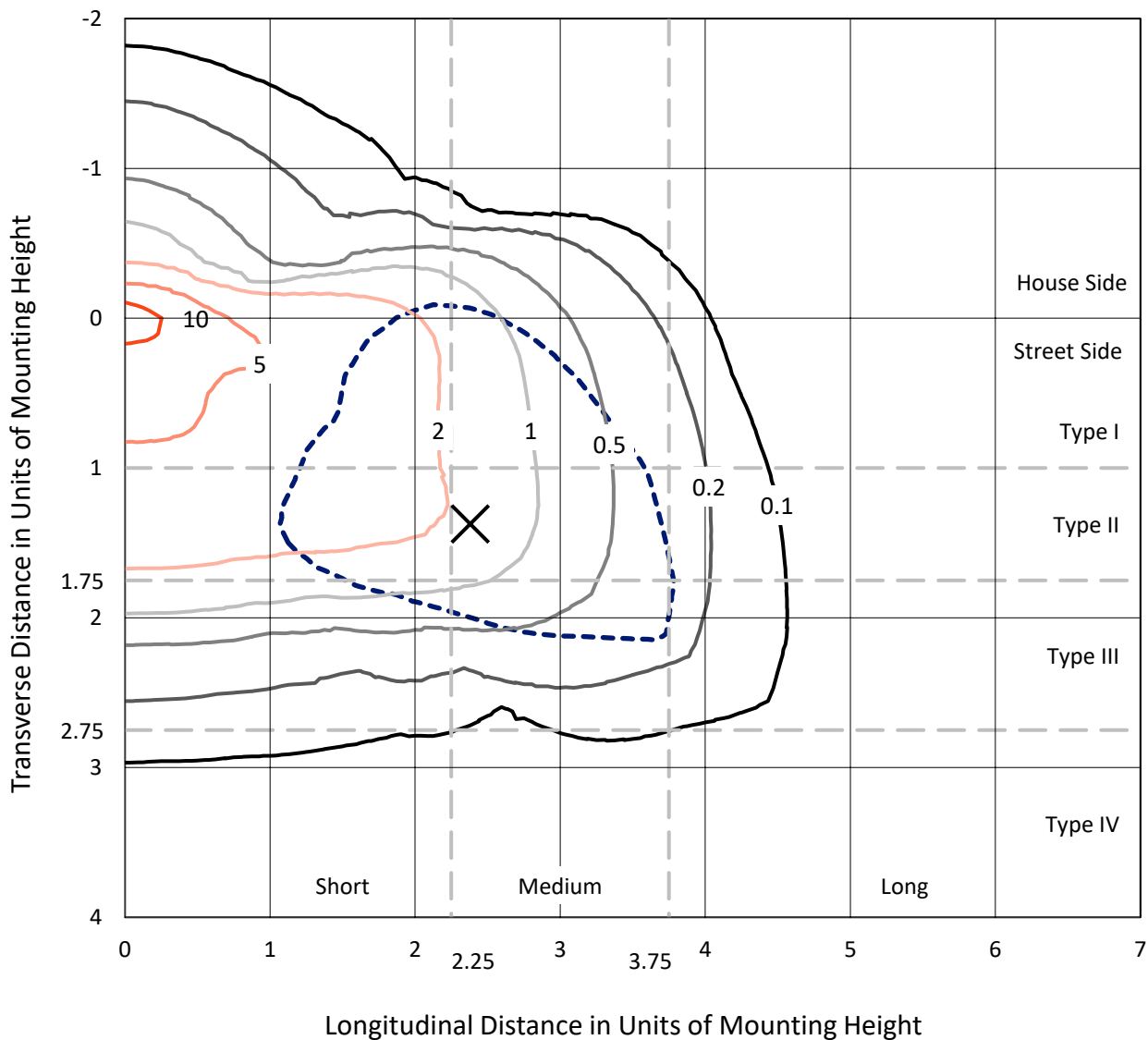
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641171
 CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination

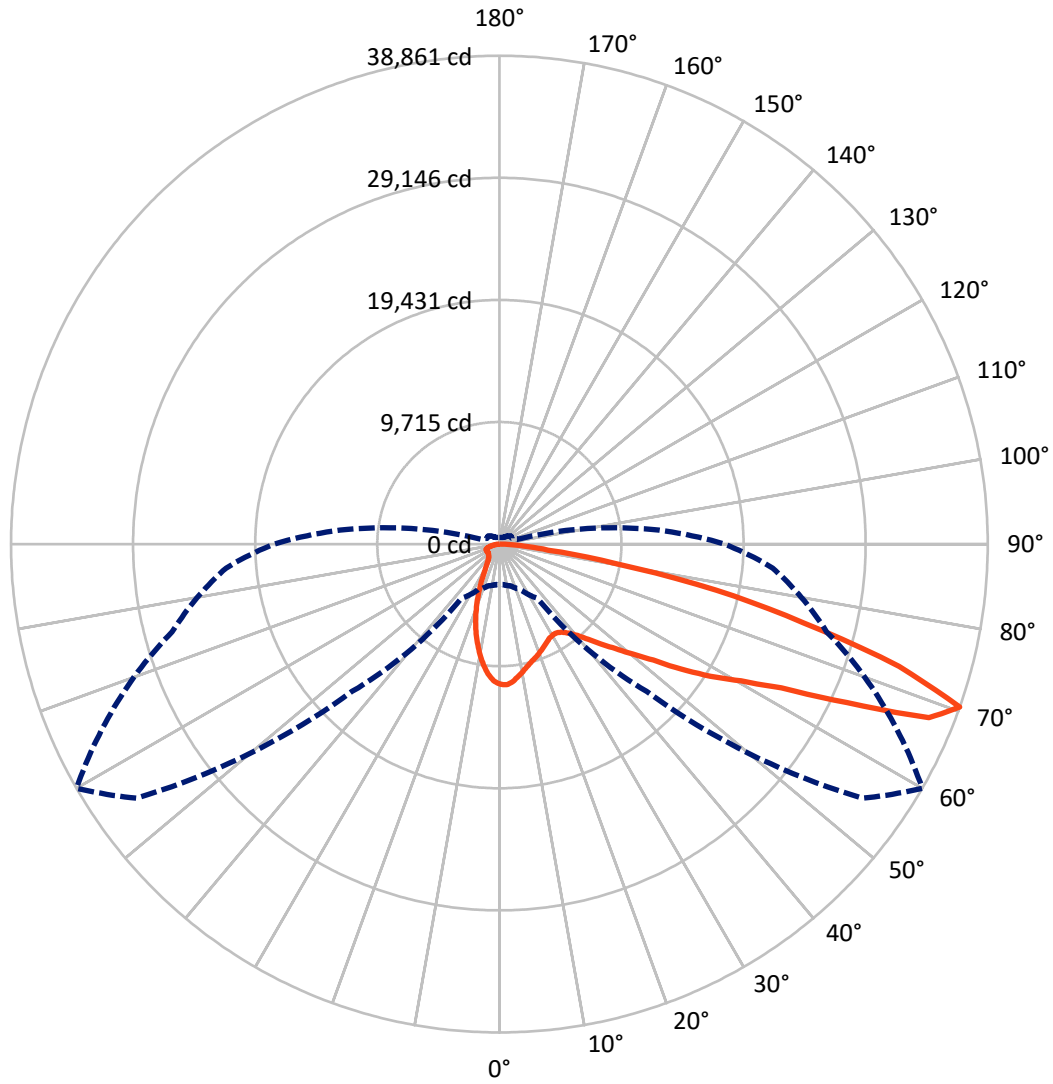
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P641171
CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P641171

CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6898.3	0.0	6898.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	33437.3	0.0	33437.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	40335.6	0.0	40335.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	962.1	2.4
10°-20°	2155.3	5.3
20°-30°	2760.3	6.8
30°-40°	3627.7	9.0
40°-50°	5263.1	13.0
50°-60°	8211.8	20.4
60°-70°	10750.8	26.7
70°-80°	5944.8	14.7
80°-90°	659.7	1.6
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°	40335.6	100.0
0°-180°	40335.6	100.0

Coefficient of Utilization



REPORT NUMBER: P641171

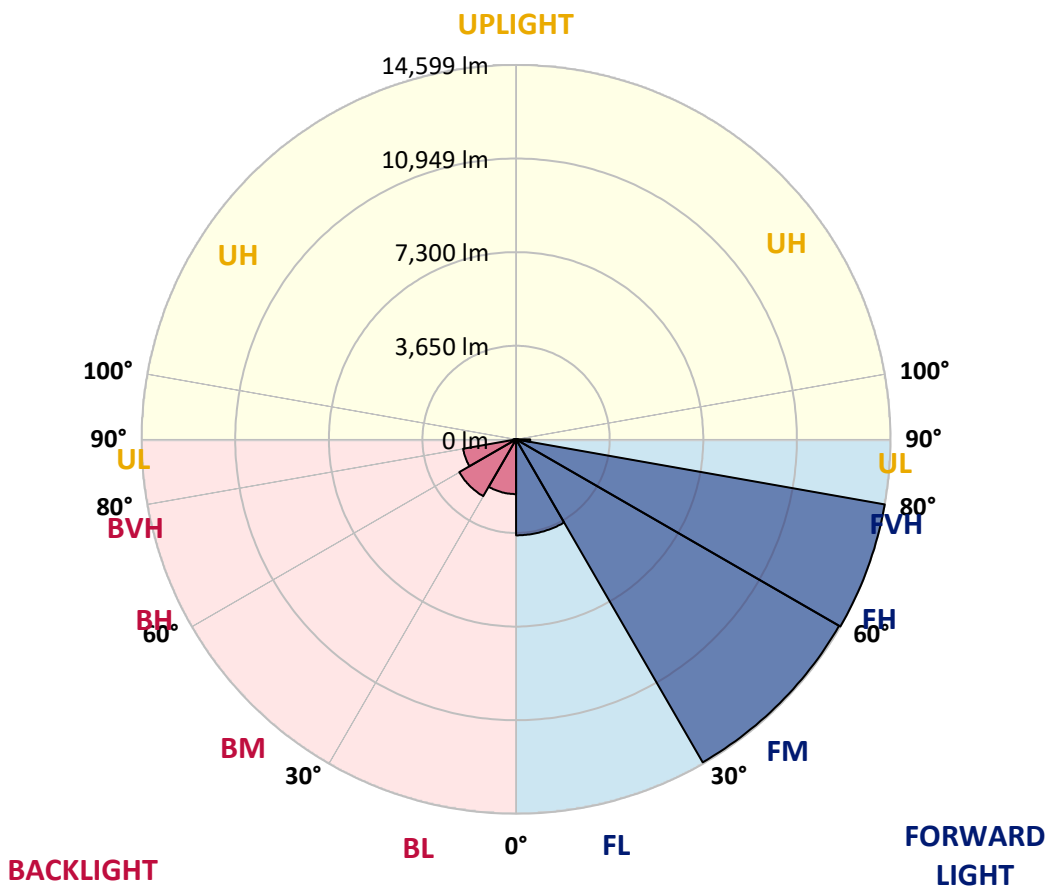
CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3743.4	9.3			
FM (30°-60°)	14544.9	36.1			
FH (60°-80°)	14599.3	36.2			G5
FVH (80°-90°)	549.7	1.4			G4/750
BL (0°-30°)	2134.3	5.3	B3/2500		
BM (30°-60°)	2557.7	6.3	B3/5000		
BH (60°-80°)	2096.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	110.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P641171
 CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4
2.5°	11005.0	11016.8	11049.2	11096.5	11143.7	11167.3	11226.3	11208.6	11196.8	11173.2	11143.7
5°	10518.0	10541.6	10571.1	10662.6	10765.9	10848.6	10981.4	10996.1	11002.0	11013.8	10966.6
7.5°	9898.3	9904.2	9975.0	10096.0	10231.8	10373.4	10594.8	10656.7	10709.9	10768.9	10730.5
10°	9213.6	9228.4	9281.5	9455.6	9688.7	9898.3	10196.3	10299.6	10411.8	10541.6	10488.5
12.5°	8652.9	8655.8	8741.4	8927.3	9181.1	9464.5	9836.3	9960.3	10107.8	10311.4	10264.2
15°	8207.2	8207.2	8286.9	8446.3	8738.5	9071.9	9514.6	9674.0	9874.7	10149.1	10066.5
17.5°	7853.1	7856.1	7906.2	8074.4	8334.1	8703.0	9228.4	9443.8	9665.1	10028.1	9904.2
20°	7667.2	7652.4	7661.3	7764.6	7985.9	8343.0	8942.1	9192.9	9491.0	9945.5	9756.6
22.5°	7658.3	7631.8	7593.4	7602.3	7732.1	8027.2	8635.2	8939.1	9313.9	9877.6	9606.1
25°	7808.8	7779.3	7711.4	7634.7	7622.9	7800.0	8346.0	8691.2	9131.0	9848.1	9461.5
27.5°	8062.6	8042.0	7953.4	7838.3	7717.3	7711.4	8127.6	8487.6	8998.2	9877.6	9358.2
30°	8399.1	8363.7	8307.6	8160.0	7977.1	7788.2	8042.0	8378.4	8909.6	9972.1	9313.9
32.5°	8779.8	8759.1	8706.0	8558.4	8363.7	8062.6	8109.9	8402.0	8909.6	10137.3	9322.8
35°	9184.1	9181.1	9181.1	9083.7	8868.3	8493.5	8378.4	8602.7	9045.4	10402.9	9417.2
37.5°	9576.6	9573.6	9668.1	9703.5	9458.5	9054.2	8835.8	9004.1	9343.5	10795.4	9650.4
40°	9895.3	9907.1	10113.7	10290.8	10155.0	9780.2	9473.3	9558.9	9827.4	11353.2	10057.6
42.5°	10217.0	10249.5	10559.3	10872.2	10925.3	10600.7	10290.8	10341.0	10521.0	12091.0	10665.6
45°	10568.2	10583.0	11016.8	11453.5	11710.3	11518.5	11264.7	11332.6	11373.9	13002.9	11571.6
47.5°	10907.6	10945.9	11506.7	12105.8	12592.7	12575.0	12433.3	12412.7	12421.5	14112.6	12642.9
50°	11370.9	11427.0	12085.1	12808.1	13522.3	13849.9	13891.2	13734.8	13669.9	15346.2	13976.8
52.5°	12250.4	12250.4	12840.6	13551.8	14511.0	15322.6	15600.0	15343.2	15136.6	16650.6	15393.4
55°	13351.2	13398.4	13867.6	14443.1	15659.0	16871.9	17810.4	17527.1	16942.8	18070.1	16877.8
57.5°	13841.1	13900.1	14643.8	15538.0	17161.1	18633.8	19935.3	19834.9	18982.0	19545.7	18418.3
60°	12955.7	13079.7	14103.7	15602.9	18521.6	21475.8	22393.6	22101.4	20882.6	21095.1	20088.7
62.5°	10807.2	10943.0	12079.2	14171.6	18332.8	24548.0	26268.5	25191.3	23255.3	23051.7	22313.9
65°	6448.3	6442.4	7808.8	10583.0	16004.3	25400.9	32401.1	30391.3	26920.7	25737.3	24604.0
67.5°	4099.2	4090.3	4376.6	5607.3	10650.8	23311.4	36343.8	36866.2	31899.4	27711.6	24792.9
70°	3234.5	3231.5	3438.1	3998.9	5267.9	16588.6	35246.0	38861.2	34906.6	26959.1	21829.9
72.5°	2358.0	2363.9	2682.6	3349.6	4063.8	8328.2	28540.9	33251.0	32105.9	23798.4	17721.9
75°	1694.0	1702.8	1894.7	2564.6	3748.0	4553.7	18979.1	25002.4	24427.0	19076.5	12191.3
77.5°	1077.2	1089.0	1257.2	1797.3	3027.9	3677.2	11506.7	17651.0	16252.2	10748.2	4335.3
80°	658.1	696.5	838.1	1339.8	2420.0	2759.4	5751.9	9299.2	8139.4	2948.2	1457.9
82.5°	339.4	368.9	504.7	829.3	1667.4	2422.9	3255.2	3907.4	2520.3	1233.6	776.2
85°	106.2	123.9	177.1	336.4	793.9	1502.2	2154.4	1941.9	1156.9	581.4	360.0
87.5°	26.6	26.6	29.5	29.5	32.5	67.9	416.1	439.7	306.9	183.0	147.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641171
 CATALOG NUMBER: GWS-SA5F-735-U-SL3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4	11161.4
2.5°	11084.7	11013.8	10984.3	10981.4	10907.6	10801.3	10730.5	10680.3	10650.8	10644.9	10644.9
5°	10886.9	10795.4	10674.4	10583.0	10385.2	10184.5	10016.3	9921.9	9812.7	9797.9	9795.0
7.5°	10624.3	10491.5	10261.3	10004.5	9659.2	9325.7	9042.4	8850.6	8658.8	8623.4	8611.6
10°	10341.0	10160.9	9768.4	9316.9	8800.4	8301.7	7867.9	7528.5	7304.2	7144.8	7115.3
12.5°	10060.6	9821.5	9246.1	8573.2	7864.9	7183.2	6531.0	5976.2	5574.8	5341.6	5300.3
15°	9797.9	9464.5	8676.5	7817.7	6896.9	5964.3	5040.6	4320.5	3756.9	3556.2	3509.0
17.5°	9558.9	9142.8	8124.6	7035.6	5887.6	4668.8	3618.2	2977.7	2647.2	2546.9	2523.3
20°	9319.8	8812.2	7563.9	6212.2	4816.3	3449.9	2644.3	2343.2	2219.3	2180.9	2169.1
22.5°	9063.1	8449.2	6953.0	5400.7	3733.2	2582.3	2163.2	2030.4	1992.1	1995.0	1992.1
25°	8806.3	8080.3	6312.6	4518.3	2780.0	2095.3	1888.8	1838.6	1847.4	1874.0	1879.9
27.5°	8593.9	7752.8	5684.0	3550.3	2172.1	1803.2	1705.8	1702.8	1735.3	1770.7	1776.6
30°	8440.4	7460.6	5064.2	2729.8	1788.4	1602.5	1564.1	1581.8	1620.2	1646.8	1655.6
32.5°	8331.2	7209.7	4403.2	2145.5	1567.1	1460.8	1443.1	1460.8	1484.4	1511.0	1516.9
35°	8292.8	7026.8	3753.9	1750.1	1416.6	1357.5	1345.7	1354.6	1366.4	1381.2	1387.1
37.5°	8378.4	6935.3	3075.1	1522.8	1325.1	1289.7	1272.0	1266.1	1269.0	1274.9	1277.9
40°	8632.2	6976.6	2520.3	1390.0	1266.1	1233.6	1204.1	1192.3	1189.3	1195.2	1192.3
42.5°	9069.0	7150.7	2119.0	1313.3	1218.8	1171.6	1139.2	1127.4	1127.4	1142.1	1142.1
45°	9709.4	7493.1	1829.7	1257.2	1177.5	1118.5	1083.1	1077.2	1089.0	1112.6	1115.5
47.5°	10647.9	7994.8	1655.6	1215.9	1139.2	1071.3	1035.9	1032.9	1056.5	1094.9	1097.8
50°	11760.5	8717.8	1561.2	1186.4	1112.6	1032.9	997.5	1000.5	1027.0	1068.3	1077.2
52.5°	13100.3	9703.5	1567.1	1174.6	1097.8	1009.3	973.9	968.0	994.5	1035.9	1044.7
55°	14484.4	10901.7	1682.2	1177.5	1077.2	997.5	950.3	929.6	953.2	982.7	985.7
57.5°	16007.2	12253.3	1968.4	1171.6	1050.6	985.7	929.6	882.4	897.2	914.9	923.7
60°	17724.8	13844.0	2585.2	1183.4	1038.8	959.1	888.3	826.3	823.4	835.2	838.1
62.5°	20020.8	16007.2	3278.8	1204.1	1065.4	926.7	826.3	761.4	749.6	755.5	758.5
65°	21776.8	17040.1	3060.4	1186.4	1121.5	903.1	767.3	699.4	675.8	669.9	669.9
67.5°	21062.6	15673.7	2130.8	1139.2	1148.0	906.0	720.1	634.5	605.0	590.2	587.3
70°	17922.5	12731.4	1481.5	1091.9	1118.5	900.1	669.9	581.4	543.0	522.4	519.4
72.5°	14159.8	9721.2	1198.2	997.5	1015.2	811.6	596.1	522.4	489.9	463.3	463.3
75°	9113.3	5931.9	1000.5	888.3	829.3	631.6	516.5	466.3	433.8	407.3	407.3
77.5°	3066.3	2201.6	776.2	752.6	619.7	475.1	433.8	401.4	374.8	351.2	348.2
80°	1245.4	1044.7	569.6	569.6	433.8	363.0	339.4	324.6	306.9	277.4	277.4
82.5°	723.0	634.5	398.4	345.3	289.2	250.9	236.1	221.3	221.3	200.7	200.7
85°	348.2	351.2	239.0	212.5	165.3	144.6	138.7	129.9	126.9	115.1	112.1
87.5°	188.9	191.8	121.0	94.4	64.9	56.1	47.2	44.3	41.3	38.4	38.4
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)