

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: P639288

Luminaire Tested: GWS-SA5B-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE 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: 16477.2 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

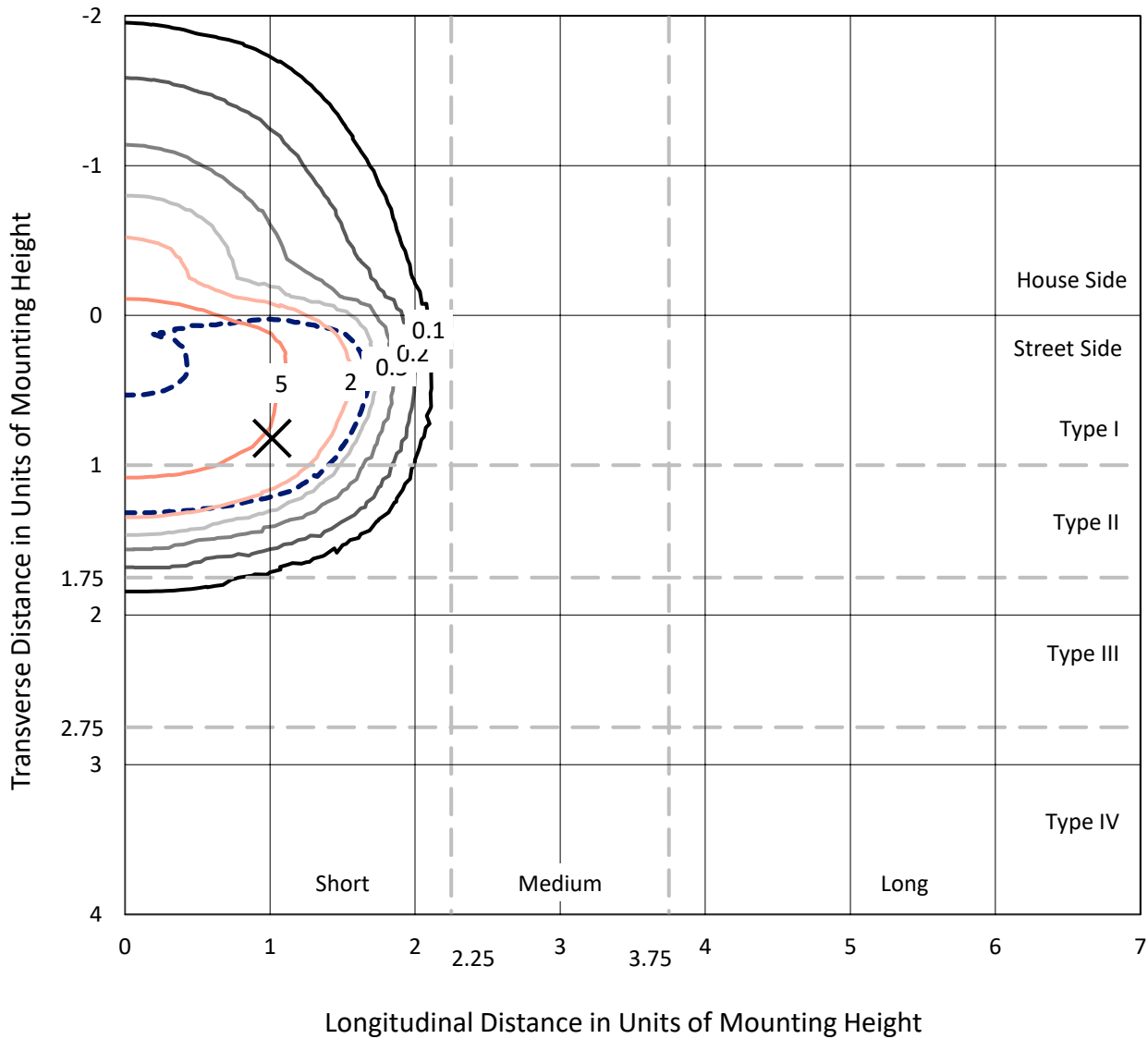
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

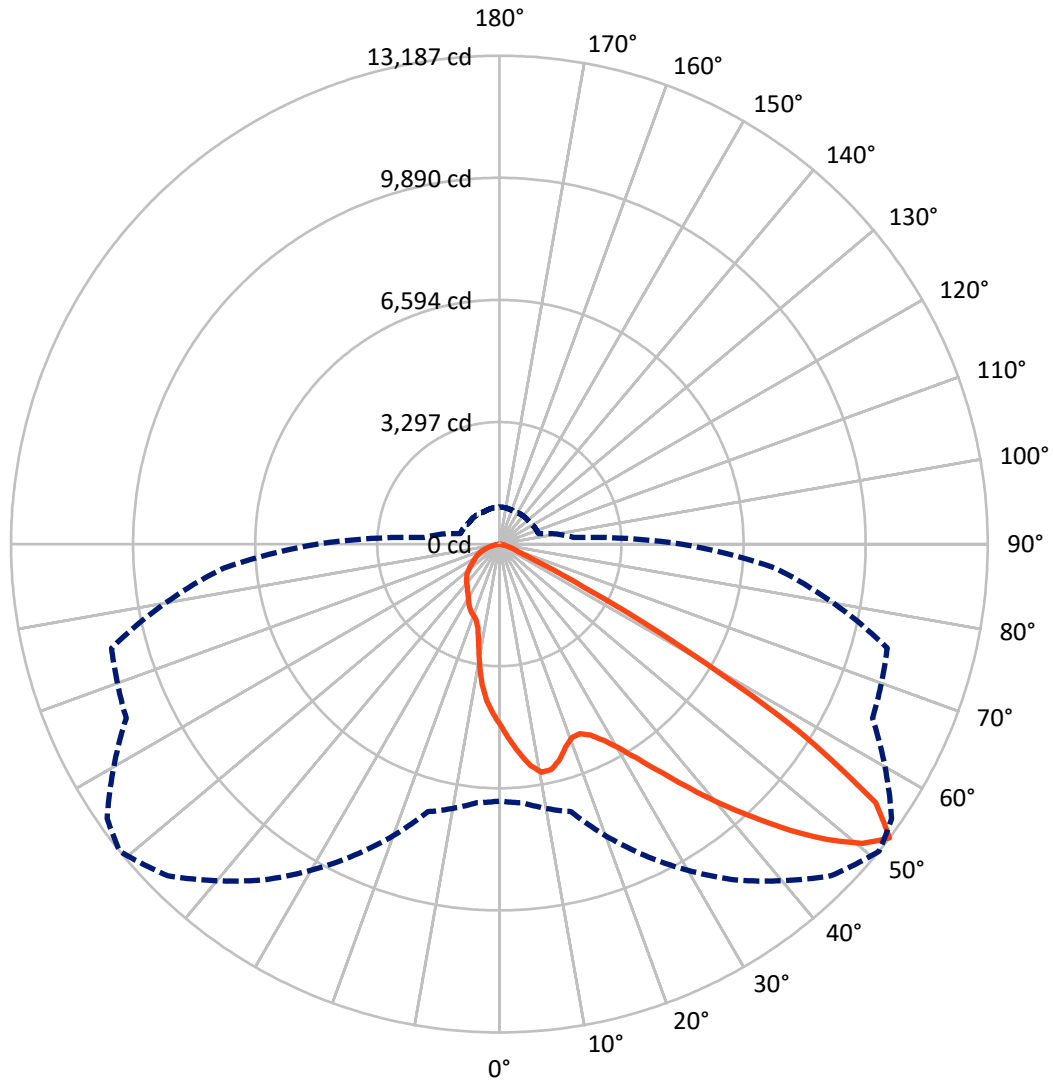
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.4	0.0	3210.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13266.8	0.0	13266.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	16477.2	0.0	16477.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	2.8
10°-20°	1189.6	7.2
20°-30°	1934.1	11.7
30°-40°	3065.2	18.6
40°-50°	4622.9	28.1
50°-60°	3999.2	24.3
60°-70°	906.7	5.5
70°-80°	267.3	1.6
80°-90°	34.4	0.2
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°	16477.2	100.0
0°-180°	16477.2	100.0

Coefficient of Utilization



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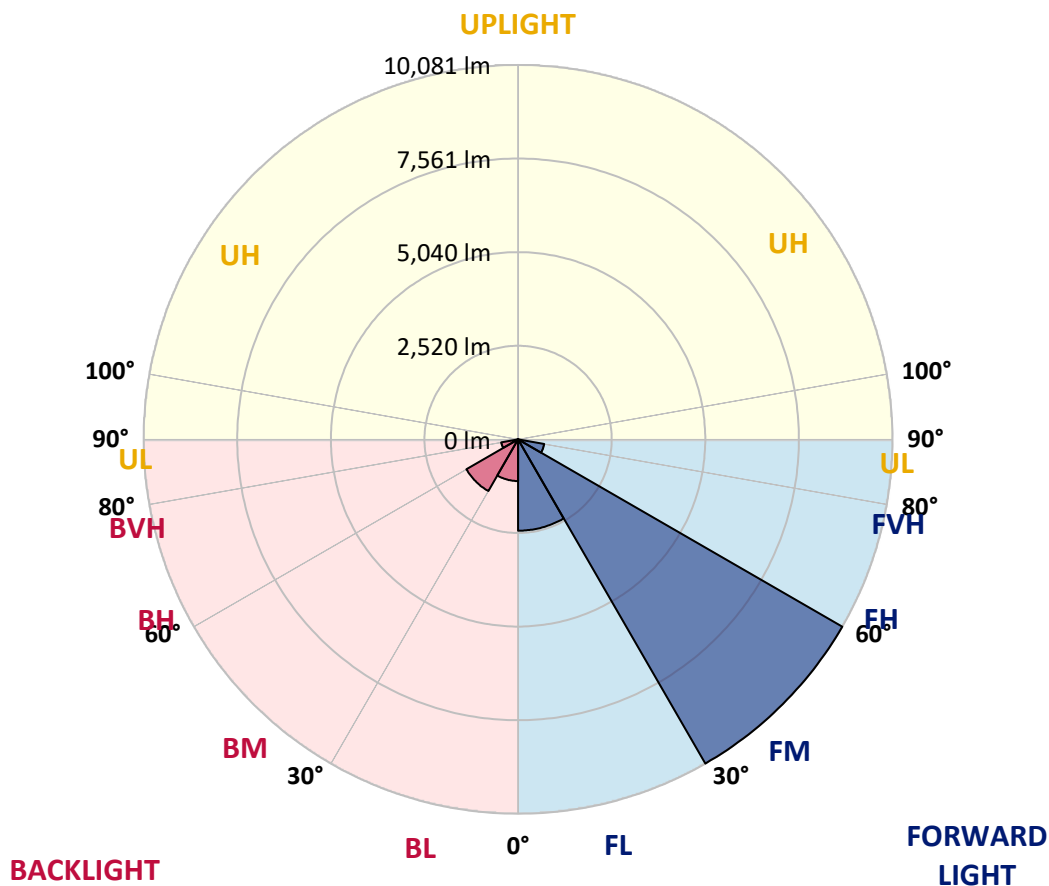
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.3	14.9			
FM (30°-60°)	10081.0	61.2			
FH (60°-80°)	713.5	4.3			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	1122.2	6.8	B3/2500		
BM (30°-60°)	1606.3	9.7	B2/2500		
BH (60°-80°)	460.5	2.8	B1/500		G1/500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1
2.5°	5467.3	5498.5	5450.3	5432.1	5402.2	5350.1	5290.2	5273.3	5144.4	5059.7	4964.7
5°	6016.7	6033.7	5994.6	5955.5	5881.3	5788.9	5673.0	5648.2	5413.9	5219.9	5018.1
7.5°	6139.1	6132.6	6166.5	6188.6	6179.5	6143.0	6040.2	5992.0	5712.0	5404.8	5106.6
10°	5654.8	5618.3	5743.3	5891.7	6070.1	6275.8	6264.1	6260.2	6016.7	5653.5	5219.9
12.5°	5012.9	4994.6	5096.2	5282.4	5619.6	6075.3	6245.9	6378.7	6291.5	5890.4	5346.2
15°	4645.7	4639.2	4708.2	4842.3	5110.5	5686.0	6050.6	6313.6	6527.1	6144.3	5480.3
17.5°	4579.3	4583.2	4606.6	4683.4	4876.1	5350.1	5771.9	6139.1	6710.7	6423.0	5648.2
20°	4773.3	4799.3	4759.0	4770.7	4874.8	5229.0	5581.8	5963.3	6827.9	6702.9	5829.2
22.5°	5204.3	5195.1	5106.6	5054.5	5055.8	5303.2	5561.0	5881.3	6904.7	6975.0	5993.3
25°	5692.5	5682.1	5576.6	5460.8	5387.8	5505.0	5710.7	5968.5	6973.7	7223.7	6124.8
27.5°	6269.3	6236.8	6119.6	5971.2	5809.7	5860.5	5999.8	6204.2	7080.5	7468.5	6212.0
30°	6827.9	6865.7	6697.7	6521.9	6351.3	6320.1	6400.8	6585.7	7297.9	7754.9	6316.2
32.5°	7568.8	7555.7	7369.5	7140.4	6896.9	6873.5	6937.3	7106.5	7688.5	8150.8	6475.0
35°	8465.9	8468.5	8204.2	7894.3	7547.9	7485.4	7592.2	7756.2	8270.6	8687.2	6726.3
37.5°	9398.1	9394.2	9163.8	8812.2	8339.6	8251.0	8373.4	8495.8	8998.4	9417.7	7116.9
40°	10051.7	10077.8	9969.7	9784.8	9336.9	9120.8	9228.9	9313.5	9790.0	10277.0	7631.3
42.5°	10422.8	10461.9	10485.3	10596.0	10360.3	10129.9	10090.8	10135.1	10497.0	11075.1	8114.3
45°	10502.2	10554.3	10724.9	11135.0	11226.2	11161.1	11033.5	10926.7	11024.4	11641.5	8430.7
47.5°	10152.0	10243.1	10607.7	11325.1	11857.7	12062.1	11920.2	11757.4	11329.0	11787.4	8398.2
50°	8764.0	8870.8	9692.4	10937.1	11947.5	12692.3	12705.3	12464.4	11292.6	11366.8	7989.3
52.5°	6938.6	7011.5	7481.5	9271.8	11066.0	12666.2	13187.1	12929.3	11116.8	10840.8	7477.6
55°	4147.0	4264.2	4703.0	6117.0	8620.8	11226.2	12335.5	12460.5	11030.9	10399.4	7128.7
57.5°	1399.7	1457.0	1876.2	2701.7	5080.6	8219.8	9530.9	10038.7	10014.0	9724.9	6447.7
60°	666.6	679.7	764.3	1024.7	2033.8	4295.4	5641.7	6227.7	6761.5	6814.9	4011.6
62.5°	507.8	515.6	558.6	614.6	817.7	1809.8	2585.9	3033.8	3240.8	2781.2	1460.9
65°	424.5	431.0	463.5	498.7	556.0	783.8	992.2	1144.5	1031.2	803.4	696.6
67.5°	354.2	359.4	384.1	421.9	460.9	524.7	550.8	566.4	593.7	666.6	640.6
70°	277.3	282.5	308.6	341.1	378.9	394.5	419.3	434.9	489.6	583.3	580.7
72.5°	213.5	220.0	234.4	255.2	286.4	302.1	329.4	347.6	378.9	454.4	485.7
75°	156.2	160.2	173.2	179.7	183.6	179.7	207.0	227.9	269.5	298.2	306.0
77.5°	63.8	71.6	69.0	69.0	82.0	99.0	113.3	126.3	154.9	171.9	173.2
80°	26.0	28.6	33.9	37.8	45.6	58.6	67.7	72.9	85.9	96.4	104.2
82.5°	15.6	16.9	19.5	20.8	26.0	33.9	39.1	43.0	53.4	63.8	67.7
85°	7.8	7.8	9.1	10.4	13.0	15.6	18.2	20.8	27.3	33.9	37.8
87.5°	1.3	1.3	1.3	2.6	3.9	5.2	6.5	7.8	9.1	10.4	13.0
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°	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1	4906.1
2.5°	4908.7	4838.4	4756.3	4691.2	4615.7	4559.7	4480.3	4430.8	4384.0	4344.9	4316.3
5°	4913.9	4795.4	4624.8	4473.8	4317.6	4169.1	4016.8	3893.1	3782.4	3690.0	3682.2
7.5°	4943.8	4773.3	4506.4	4242.0	3937.4	3643.1	3348.8	3109.3	2927.0	2831.9	2812.4
10°	4994.6	4770.7	4385.3	3963.4	3443.9	2970.0	2621.0	2438.7	2333.3	2295.5	2282.5
12.5°	5048.0	4764.2	4230.3	3570.2	2848.9	2433.5	2242.1	2220.0	2239.5	2242.1	2240.8
15°	5113.1	4760.3	4035.0	3109.3	2414.0	2184.8	2197.8	2244.7	2290.3	2300.7	2300.7
17.5°	5192.5	4751.1	3769.4	2658.8	2141.9	2136.6	2205.7	2268.2	2311.1	2318.9	2318.9
20°	5275.9	4727.7	3442.6	2291.6	2031.2	2106.7	2180.9	2229.1	2259.0	2269.5	2270.8
22.5°	5333.2	4665.2	3066.3	2019.5	1962.2	2049.4	2102.8	2152.3	2152.3	2126.2	2118.4
25°	5344.9	4531.1	2658.8	1833.3	1880.1	1960.9	2015.6	1986.9	1933.5	1912.7	1911.4
27.5°	5301.9	4335.8	2256.4	1700.5	1781.2	1861.9	1852.8	1811.1	1787.7	1766.9	1774.7
30°	5249.8	4101.4	1907.5	1591.1	1666.6	1746.0	1714.8	1700.5	1683.5	1660.1	1665.3
32.5°	5214.7	3839.7	1639.3	1506.5	1589.8	1602.8	1624.9	1623.6	1608.0	1563.7	1561.1
35°	5225.1	3575.4	1459.6	1437.5	1526.0	1520.8	1562.4	1554.6	1446.6	1385.4	1381.5
37.5°	5308.4	3321.5	1354.1	1382.8	1424.4	1457.0	1493.4	1399.7	1361.9	1322.9	1325.5
40°	5467.3	3085.8	1296.8	1352.8	1363.2	1411.4	1326.8	1325.5	1308.5	1273.4	1272.1
42.5°	5646.9	2886.6	1257.8	1338.5	1324.2	1333.3	1243.4	1253.9	1252.6	1230.4	1223.9
45°	5756.3	2703.0	1226.5	1285.1	1289.0	1197.9	1170.5	1182.3	1188.8	1177.0	1175.7
47.5°	5643.0	2492.1	1194.0	1203.1	1236.9	1136.7	1102.8	1104.1	1115.8	1117.1	1111.9
50°	5325.3	2256.4	1154.9	1132.8	1110.6	1072.9	1041.6	1035.1	1046.8	1058.6	1062.5
52.5°	4915.2	2031.2	1089.8	1056.0	1003.9	1003.9	989.5	968.7	984.3	1000.0	1005.2
55°	4614.4	1864.5	997.4	959.6	902.3	921.8	919.2	901.0	921.8	933.6	937.5
57.5°	3998.6	1498.6	877.6	865.9	817.7	841.1	846.3	822.9	812.5	815.1	819.0
60°	2373.6	967.4	791.6	790.3	747.4	774.7	790.3	766.9	735.7	739.6	744.8
62.5°	1065.1	739.6	683.6	678.4	677.1	712.2	729.1	707.0	662.7	666.6	671.9
65°	670.6	639.3	593.7	593.7	614.6	644.5	657.5	639.3	588.5	582.0	587.2
67.5°	622.4	595.0	548.2	539.0	549.5	574.2	575.5	540.3	510.4	505.2	505.2
70°	558.6	537.7	492.2	473.9	470.0	468.7	464.8	455.7	436.2	431.0	433.6
72.5°	462.2	447.9	419.3	399.7	389.3	388.0	372.4	364.6	347.6	345.0	343.7
75°	306.0	309.9	309.9	307.3	298.2	294.3	277.3	269.5	250.0	242.2	240.9
77.5°	181.0	184.9	190.1	191.4	190.1	190.1	174.5	165.4	145.8	135.4	132.8
80°	110.7	113.3	115.9	119.8	114.6	110.7	96.4	87.2	78.1	71.6	70.3
82.5°	71.6	74.2	75.5	78.1	75.5	70.3	58.6	53.4	46.9	41.7	40.4
85°	40.4	41.7	44.3	44.3	40.4	36.5	29.9	26.0	22.1	19.5	19.5
87.5°	14.3	14.3	14.3	15.6	13.0	11.7	7.8	5.2	3.9	3.9	3.9
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)