

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: P642148

Luminaire Tested: GWS-SA6C-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642148
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-SA6C-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25406.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

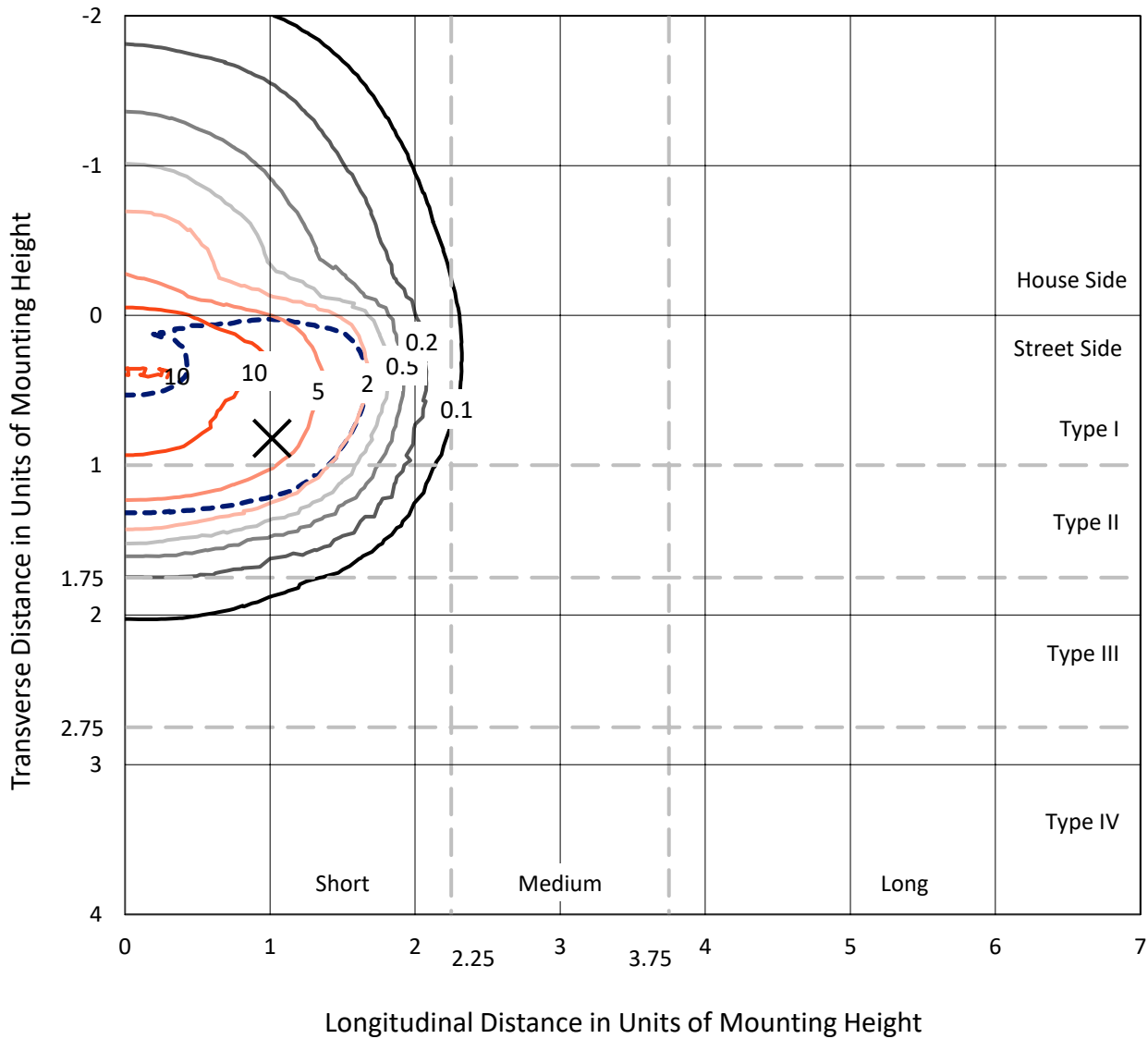
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

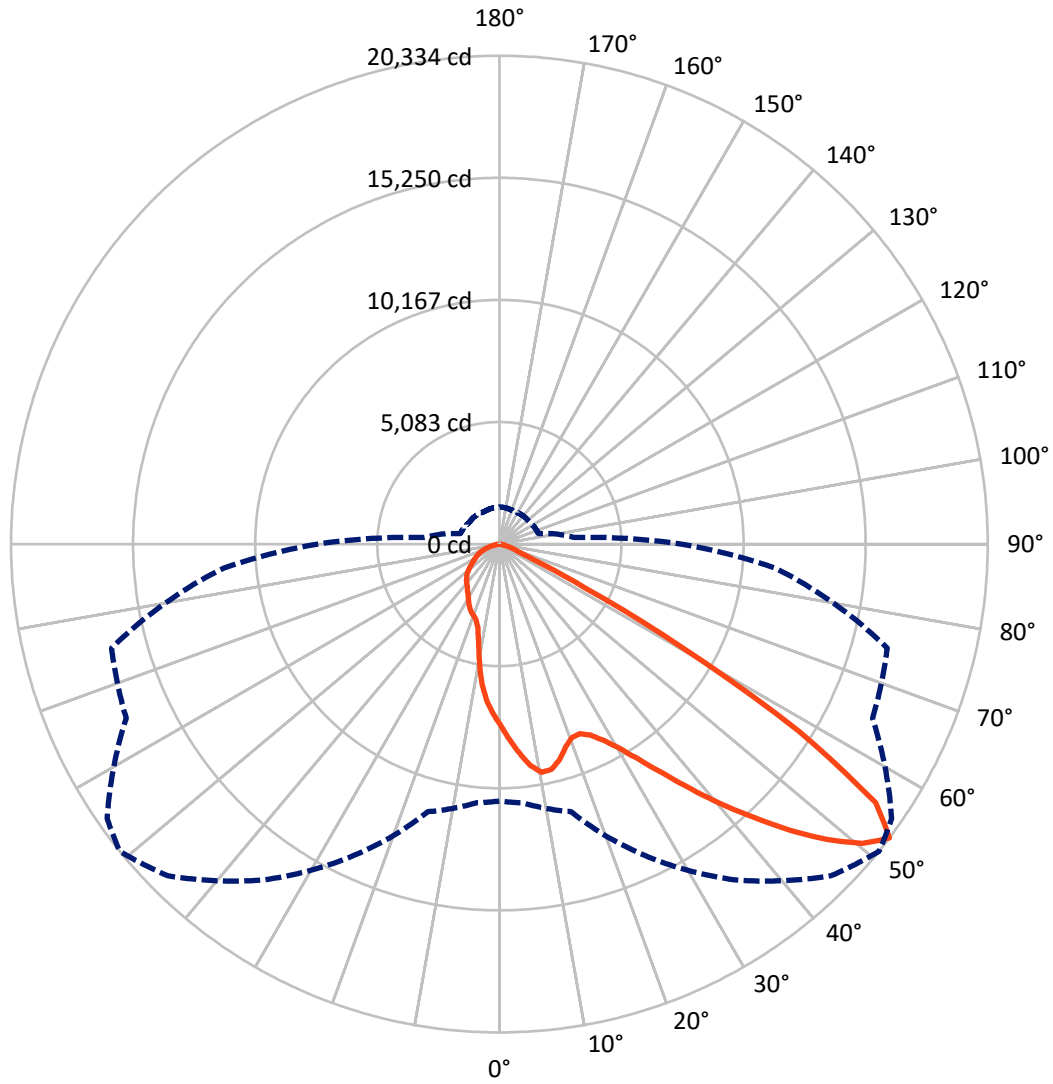
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	4950.3	0.0	4950.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	20456.4	0.0	20456.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	25406.7	0.0	25406.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.9	2.8
10°-20°	1834.2	7.2
20°-30°	2982.3	11.7
30°-40°	4726.3	18.6
40°-50°	7128.2	28.1
50°-60°	6166.5	24.3
60°-70°	1398.0	5.5
70°-80°	412.2	1.6
80°-90°	53.1	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°	25406.7	100.0
0°-180°	25406.7	100.0

Coefficient of Utilization



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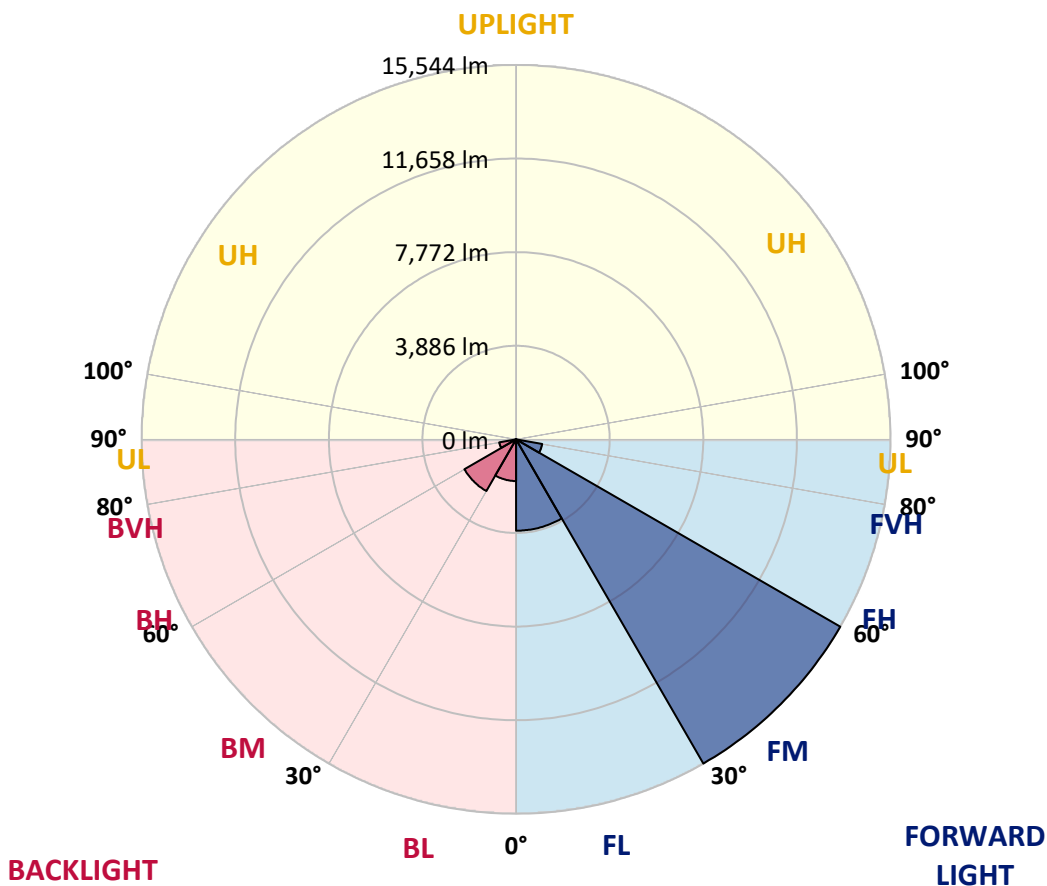
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3792.0	14.9			
FM (30°-60°)	15544.2	61.2			
FH (60°-80°)	1100.2	4.3			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1730.4	6.8	B3/2500		
BM (30°-60°)	2476.8	9.7	B2/2500		
BH (60°-80°)	710.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	33.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8
2.5°	8430.1	8478.3	8404.0	8375.9	8329.8	8249.5	8157.1	8131.0	7932.2	7801.7	7655.2
5°	9277.4	9303.5	9243.2	9183.0	9068.6	8926.0	8747.4	8709.2	8347.8	8048.7	7737.5
7.5°	9466.1	9456.1	9508.3	9542.4	9528.3	9472.1	9313.5	9239.2	8807.6	8333.8	7874.0
10°	8719.2	8663.0	8855.8	9084.6	9359.7	9676.9	9658.8	9652.8	9277.4	8717.2	8048.7
12.5°	7729.5	7701.4	7858.0	8145.1	8665.0	9367.7	9630.7	9835.5	9701.0	9082.6	8243.4
15°	7163.3	7153.3	7259.7	7466.5	7880.0	8767.4	9329.6	9735.1	10064.4	9474.1	8450.2
17.5°	7060.9	7066.9	7103.1	7221.5	7518.7	8249.5	8899.9	9466.1	10347.5	9903.8	8709.2
20°	7360.1	7400.2	7338.0	7356.0	7516.7	8062.7	8606.8	9195.1	10528.1	10335.4	8988.3
22.5°	8024.6	8010.5	7874.0	7793.7	7795.7	8177.2	8574.7	9068.6	10646.6	10755.0	9241.2
25°	8777.5	8761.4	8598.8	8420.1	8307.7	8488.4	8805.6	9203.1	10753.0	11138.5	9444.0
27.5°	9666.9	9616.7	9436.0	9207.1	8958.2	9036.5	9251.3	9566.5	10917.6	11515.9	9578.5
30°	10528.1	10586.4	10327.4	10056.3	9793.3	9745.2	9869.6	10154.7	11252.9	11957.6	9739.1
32.5°	11670.5	11650.4	11363.3	11010.0	10634.5	10598.4	10696.8	10957.8	11855.2	12567.9	9984.1
35°	13053.8	13057.8	12650.2	12172.4	11638.4	11542.0	11706.6	11959.6	12752.6	13395.1	10371.5
37.5°	14491.3	14485.2	14129.9	13587.8	12859.0	12722.5	12911.2	13099.9	13874.9	14521.4	10973.8
40°	15499.1	15539.2	15372.6	15087.5	14396.9	14063.6	14230.3	14360.8	15095.6	15846.4	11766.9
42.5°	16071.3	16131.5	16167.6	16338.3	15974.9	15619.6	15559.3	15627.6	16185.7	17077.1	12511.7
45°	16193.7	16274.0	16537.1	17169.5	17310.0	17209.6	17012.9	16848.2	16998.8	17950.4	12999.6
47.5°	15653.7	15794.2	16356.4	17462.6	18283.7	18598.9	18380.1	18129.1	17468.6	18175.3	12949.4
50°	13513.5	13678.2	14945.0	16864.3	18422.2	19570.6	19590.7	19219.3	17412.4	17526.8	12319.0
52.5°	10698.8	10811.2	11536.0	14296.5	17063.1	19530.5	20333.5	19936.0	17141.4	16715.7	11530.0
55°	6394.4	6575.1	7251.6	9432.0	13292.7	17310.0	19020.5	19213.3	17008.8	16035.1	10991.9
57.5°	2158.2	2246.6	2893.0	4165.9	7833.9	12674.3	14696.0	15479.0	15440.9	14995.2	9941.9
60°	1027.9	1048.0	1178.5	1580.0	3136.0	6623.3	8699.2	9602.6	10425.7	10508.1	6185.6
62.5°	783.0	795.0	861.3	947.6	1260.8	2790.6	3987.2	4677.8	4997.1	4288.4	2252.6
65°	654.5	664.5	714.7	768.9	857.3	1208.6	1529.8	1764.7	1590.1	1238.7	1074.1
67.5°	546.1	554.1	592.3	650.5	710.7	809.1	849.2	873.3	915.5	1027.9	987.8
70°	427.6	435.7	475.8	526.0	584.2	608.3	646.5	670.6	754.9	899.4	895.4
72.5°	329.3	339.3	361.4	393.5	441.7	465.8	507.9	536.0	584.2	700.7	748.9
75°	240.9	246.9	267.0	277.1	283.1	277.1	319.2	351.3	415.6	459.8	471.8
77.5°	98.4	110.4	106.4	106.4	126.5	152.6	174.7	194.7	238.9	265.0	267.0
80°	40.2	44.2	52.2	58.2	70.3	90.3	104.4	112.4	132.5	148.6	160.6
82.5°	24.1	26.1	30.1	32.1	40.2	52.2	60.2	66.3	82.3	98.4	104.4
85°	12.0	12.0	14.1	16.1	20.1	24.1	28.1	32.1	42.2	52.2	58.2
87.5°	2.0	2.0	2.0	4.0	6.0	8.0	10.0	12.0	14.1	16.1	20.1
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°	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8	7564.8
2.5°	7568.9	7460.4	7334.0	7233.6	7117.1	7030.8	6908.3	6832.0	6759.8	6699.5	6655.4
5°	7576.9	7394.2	7131.2	6898.3	6657.4	6428.5	6193.6	6002.9	5832.2	5689.7	5677.6
7.5°	7623.1	7360.1	6948.5	6540.9	6071.1	5617.4	5163.7	4794.3	4513.2	4366.6	4336.5
10°	7701.4	7356.0	6761.8	6111.3	5310.2	4579.5	4041.4	3760.3	3597.7	3539.5	3519.4
12.5°	7783.7	7346.0	6522.9	5505.0	4392.7	3752.3	3457.2	3423.1	3453.2	3457.2	3455.2
15°	7884.1	7340.0	6221.7	4794.3	3722.2	3368.8	3388.9	3461.2	3531.5	3547.5	3547.5
17.5°	8006.5	7325.9	5812.2	4099.6	3302.6	3294.6	3401.0	3497.3	3563.6	3575.6	3575.6
20°	8135.0	7289.8	5308.2	3533.5	3131.9	3248.4	3362.8	3437.1	3483.3	3499.3	3501.3
22.5°	8223.4	7193.4	4728.0	3113.9	3025.5	3160.0	3242.4	3318.7	3318.7	3278.5	3266.5
25°	8241.4	6986.6	4099.6	2826.8	2899.1	3023.5	3107.8	3063.7	2981.4	2949.2	2947.2
27.5°	8175.2	6685.5	3479.3	2622.0	2746.5	2870.9	2856.9	2792.6	2756.5	2724.4	2736.4
30°	8094.9	6324.1	2941.2	2453.4	2569.8	2692.3	2644.1	2622.0	2595.9	2559.8	2567.8
32.5°	8040.7	5920.6	2527.6	2322.9	2451.3	2471.4	2505.6	2503.5	2479.5	2411.2	2407.2
35°	8056.7	5513.0	2250.6	2216.5	2353.0	2344.9	2409.2	2397.1	2230.5	2136.1	2130.1
37.5°	8185.2	5121.5	2088.0	2132.1	2196.4	2246.6	2302.8	2158.2	2100.0	2039.8	2043.8
40°	8430.1	4758.1	1999.6	2086.0	2102.0	2176.3	2045.8	2043.8	2017.7	1963.5	1961.5
42.5°	8707.2	4451.0	1939.4	2063.9	2041.8	2055.8	1917.3	1933.4	1931.4	1897.2	1887.2
45°	8875.8	4167.9	1891.2	1981.6	1987.6	1847.0	1804.9	1823.0	1833.0	1814.9	1812.9
47.5°	8701.2	3842.7	1841.0	1855.1	1907.3	1752.7	1700.5	1702.5	1720.6	1722.6	1714.5
50°	8211.3	3479.3	1780.8	1746.7	1712.5	1654.3	1606.1	1596.1	1614.2	1632.2	1638.2
52.5°	7578.9	3131.9	1680.4	1628.2	1547.9	1547.9	1525.8	1493.7	1517.8	1541.9	1549.9
55°	7115.1	2875.0	1537.9	1479.6	1391.3	1421.4	1417.4	1389.3	1421.4	1439.5	1445.5
57.5°	6165.5	2310.8	1353.2	1335.1	1260.8	1296.9	1305.0	1268.8	1252.8	1256.8	1262.8
60°	3660.0	1491.7	1220.7	1218.6	1152.4	1194.6	1218.6	1182.5	1134.3	1140.3	1148.4
62.5°	1642.3	1140.3	1054.0	1046.0	1044.0	1098.2	1124.3	1090.2	1021.9	1027.9	1035.9
65°	1033.9	985.8	915.5	915.5	947.6	993.8	1013.9	985.8	907.5	897.4	905.5
67.5°	959.7	917.5	845.2	831.2	847.2	885.4	887.4	833.2	787.0	779.0	779.0
70°	861.3	829.2	758.9	730.8	724.8	722.8	716.7	702.7	672.6	664.5	668.5
72.5°	712.7	690.6	646.5	616.3	600.3	598.3	574.2	562.1	536.0	532.0	530.0
75°	471.8	477.8	477.8	473.8	459.8	453.7	427.6	415.6	385.5	373.4	371.4
77.5°	279.1	285.1	293.1	295.1	293.1	293.1	269.0	255.0	224.9	208.8	204.8
80°	170.7	174.7	178.7	184.7	176.7	170.7	148.6	134.5	120.5	110.4	108.4
82.5°	110.4	114.4	116.4	120.5	116.4	108.4	90.3	82.3	72.3	64.2	62.2
85°	62.2	64.2	68.3	68.3	62.2	56.2	46.2	40.2	34.1	30.1	30.1
87.5°	22.1	22.1	22.1	24.1	20.1	18.1	12.0	8.0	6.0	6.0	6.0
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)