

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: P635531

Luminaire Tested: GWS-SA3D-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12256.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

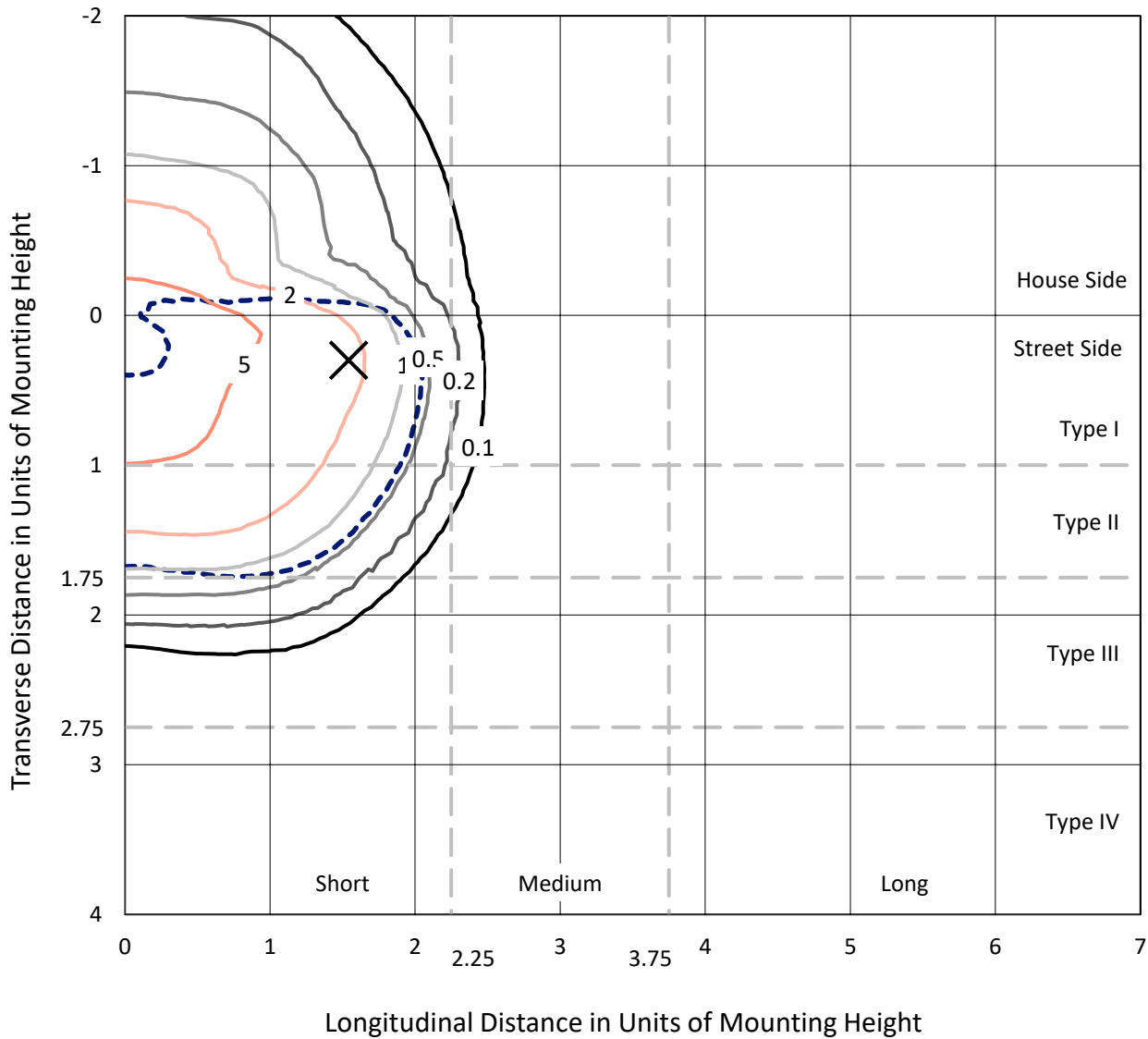
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

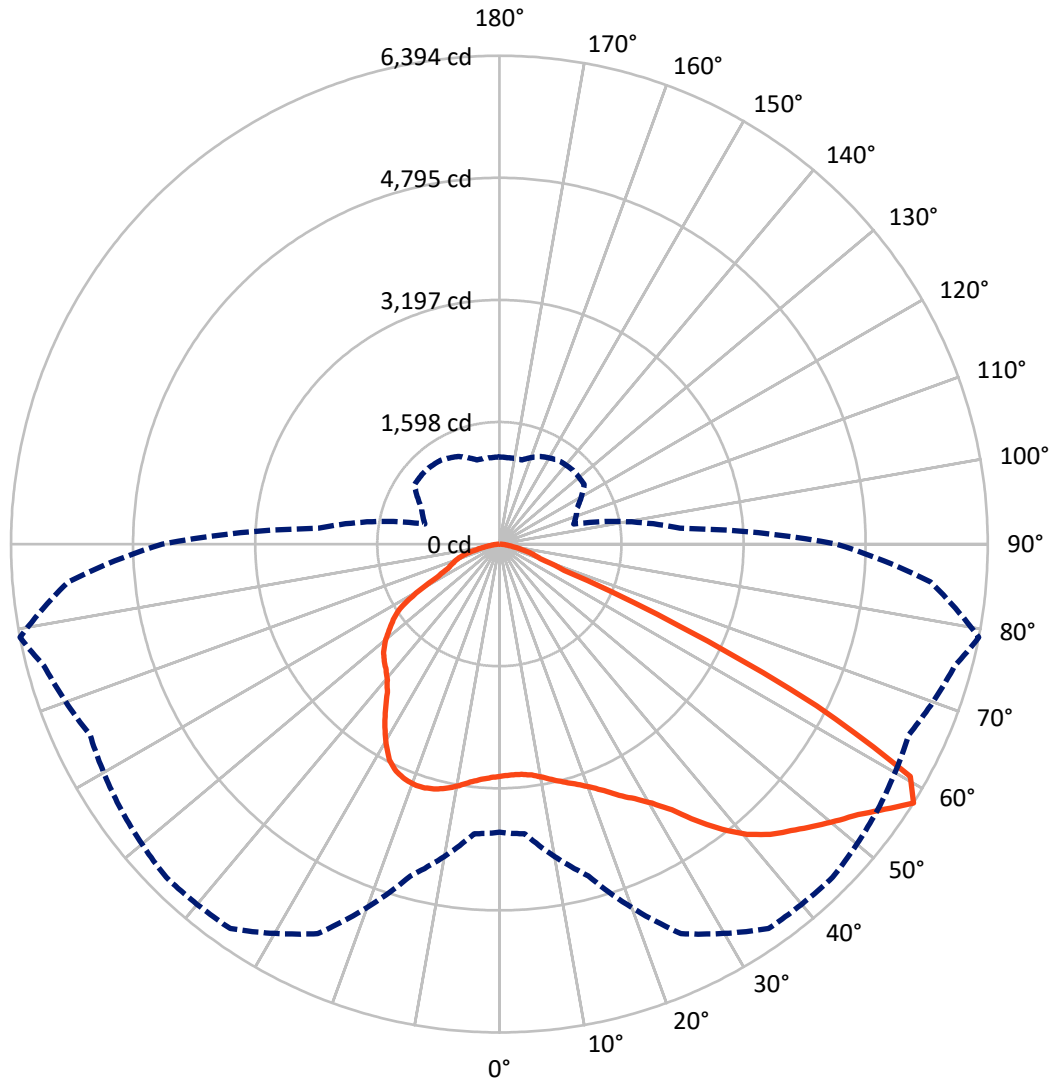
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3643.3	0.0	3643.3
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	8613.2	0.0	8613.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	12256.5	0.0	12256.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	2.3
10°-20°	781.7	6.4
20°-30°	1325.0	10.8
30°-40°	2028.1	16.5
40°-50°	2704.3	22.1
50°-60°	3123.3	25.5
60°-70°	1623.0	13.2
70°-80°	345.0	2.8
80°-90°	44.7	0.4
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°	12256.5	100.0
0°-180°	12256.5	100.0

Coefficient of Utilization



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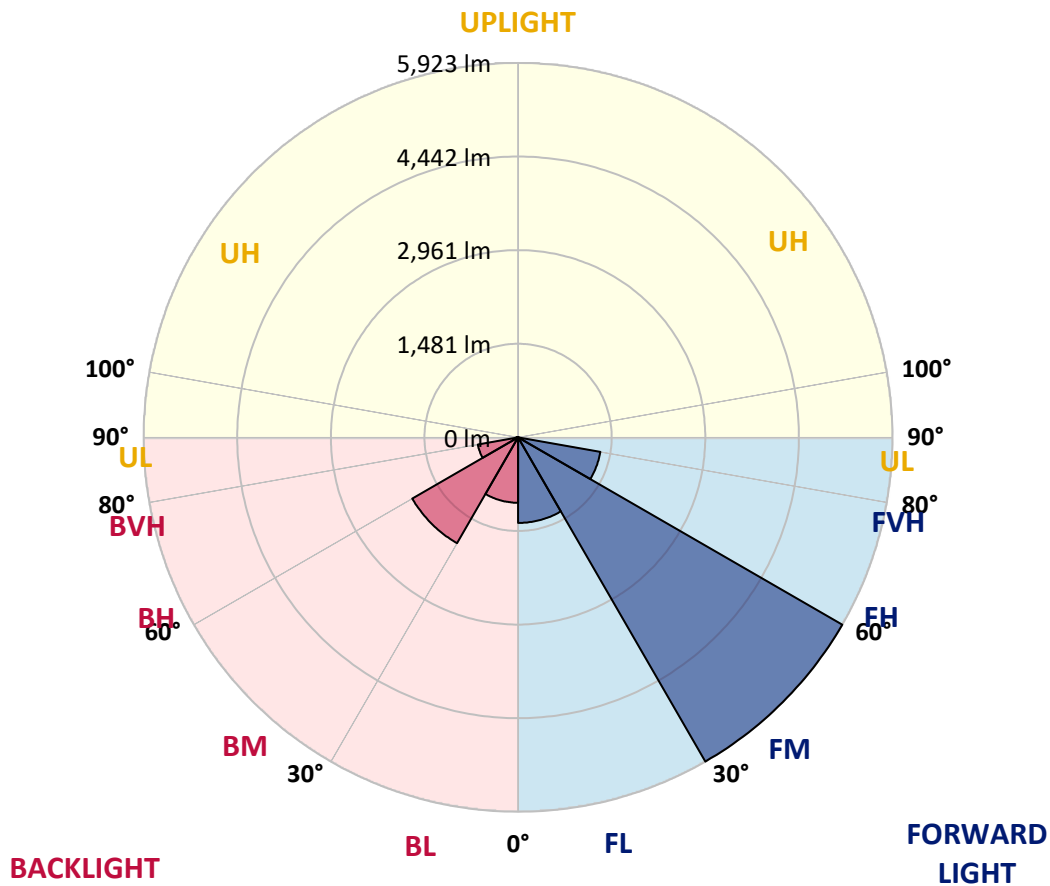
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.4	11.0			
FM (30°-60°)	5922.7	48.3			
FH (60°-80°)	1321.6	10.8			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1034.7	8.4	B3/2500		
BM (30°-60°)	1933.1	15.8	B2/2500		
BH (60°-80°)	646.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	29.1	0.2			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°	55°	65°	75°	79°	85°
0°	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4
2.5°	2899.2	2893.1	2895.1	2903.2	2933.2	2955.3	2978.3	2999.4	3019.4	3025.4	3030.4
5°	2795.9	2784.9	2787.9	2800.9	2836.0	2873.1	2914.2	2964.3	3012.4	3028.4	3049.5
7.5°	2722.8	2720.8	2725.8	2745.8	2782.9	2818.0	2871.1	2942.2	3025.4	3052.5	3089.6
10°	2625.6	2621.6	2641.6	2682.7	2743.8	2799.9	2863.1	2947.3	3063.5	3103.6	3160.7
12.5°	2548.4	2546.4	2567.4	2624.6	2702.7	2791.9	2879.1	2973.3	3114.6	3169.7	3239.9
15°	2593.5	2584.5	2585.5	2625.6	2695.7	2800.9	2919.2	3020.4	3165.7	3235.9	3326.1
17.5°	2724.8	2708.7	2696.7	2703.7	2743.8	2853.1	2980.3	3083.5	3224.8	3307.0	3417.2
20°	2906.2	2897.1	2864.1	2842.0	2851.0	2947.3	3076.5	3172.7	3302.0	3394.2	3512.5
22.5°	3149.7	3127.6	3082.5	3047.5	3020.4	3095.6	3214.8	3298.0	3409.2	3505.4	3628.7
25°	3451.3	3419.3	3348.1	3293.0	3234.9	3312.0	3418.3	3481.4	3556.5	3645.7	3763.0
27.5°	3759.0	3731.9	3652.7	3578.6	3506.4	3554.5	3680.8	3716.9	3708.9	3774.0	3874.2
30°	4086.7	4052.6	3977.4	3897.3	3804.1	3835.1	3948.4	3966.4	3881.2	3935.3	4003.5
32.5°	4432.4	4399.3	4334.2	4241.0	4135.8	4147.8	4178.9	4195.9	4114.7	4145.8	4197.9
35°	4784.1	4753.1	4686.9	4594.7	4517.6	4444.4	4366.3	4434.4	4387.3	4447.4	4443.4
37.5°	5105.8	5074.8	5033.7	4962.5	4830.2	4685.9	4505.6	4589.7	4662.9	4739.1	4726.0
40°	5323.3	5302.2	5312.3	5301.2	5130.9	4845.3	4573.7	4665.9	4865.3	4995.6	4988.6
42.5°	5510.7	5489.6	5547.8	5589.9	5389.4	4992.6	4606.8	4695.0	4994.6	5198.0	5188.0
45°	5593.9	5587.9	5684.1	5817.3	5625.9	5148.9	4692.0	4755.1	5092.8	5353.4	5315.3
47.5°	5494.7	5515.7	5705.1	5930.6	5822.4	5334.3	4866.3	4882.4	5221.1	5521.7	5414.5
50°	5297.2	5343.3	5598.9	5933.6	5965.7	5543.8	5107.8	5067.8	5393.4	5701.1	5466.6
52.5°	5009.6	5057.7	5474.6	5910.5	6047.8	5786.3	5429.5	5372.4	5610.9	5880.5	5475.6
55°	4349.2	4414.4	5190.0	5858.4	6128.0	6006.7	5792.3	5676.0	5891.5	6127.0	5564.8
57.5°	3773.0	3807.1	4496.5	5626.9	6144.0	6169.1	6050.8	5912.5	6170.1	6393.6	5665.0
60°	2768.9	2776.9	3397.2	4655.9	5652.0	6074.9	6029.8	5824.4	6037.8	6180.1	5206.0
62.5°	1564.3	1565.3	2060.4	3107.6	4222.0	4951.5	4979.6	4798.2	4618.8	4660.9	3623.7
65°	587.2	642.4	941.0	1527.2	2434.2	2923.2	3039.4	3081.5	2782.9	2597.5	1943.1
67.5°	392.8	405.9	549.2	785.7	1083.3	1250.7	1399.0	1403.0	1026.2	914.9	765.6
70°	299.6	312.7	431.9	562.2	549.2	507.1	548.2	533.1	551.2	566.2	582.2
72.5°	223.5	236.5	334.7	396.8	329.7	324.7	367.8	408.9	446.9	463.0	488.0
75°	148.3	158.3	225.5	212.5	182.4	215.5	268.6	309.7	331.7	350.7	369.8
77.5°	94.2	101.2	120.3	97.2	101.2	126.3	156.3	193.4	214.5	233.5	243.5
80°	43.1	42.1	41.1	46.1	57.1	74.2	94.2	116.2	132.3	140.3	146.3
82.5°	17.0	19.0	21.0	25.1	31.1	40.1	53.1	68.1	81.2	83.2	88.2
85°	7.0	8.0	9.0	11.0	14.0	18.0	22.0	31.1	39.1	42.1	45.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.0	5.0	9.0	10.0	11.0
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°	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4	3037.4
2.5°	3057.5	3044.5	3066.5	3081.5	3095.6	3080.5	3075.5	3062.5	3060.5	3060.5	3067.5
5°	3085.5	3076.5	3099.6	3108.6	3107.6	3074.5	3054.5	3028.4	3015.4	3015.4	3017.4
7.5°	3135.7	3130.6	3143.7	3129.6	3097.6	3030.4	2964.3	2909.2	2872.1	2853.1	2859.1
10°	3218.8	3212.8	3201.8	3149.7	3057.5	2918.2	2782.9	2682.7	2622.6	2588.5	2590.5
12.5°	3300.0	3290.0	3250.9	3135.7	2946.3	2724.8	2547.4	2435.2	2369.0	2328.9	2319.9
15°	3389.2	3363.1	3279.0	3063.5	2764.9	2488.3	2302.9	2181.6	2110.5	2086.4	2085.4
17.5°	3474.4	3428.3	3276.0	2935.2	2547.4	2240.8	2054.4	1979.2	1967.2	1978.2	1981.2
20°	3560.6	3486.4	3242.9	2757.9	2288.9	1994.2	1898.0	1929.1	1974.2	2004.3	2011.3
22.5°	3649.7	3534.5	3167.7	2529.4	2016.3	1827.9	1868.0	1936.1	1992.2	2032.3	2036.3
25°	3750.0	3579.6	3055.5	2249.8	1797.8	1781.8	1860.9	1933.1	1993.2	2039.3	2047.3
27.5°	3807.1	3580.6	2898.1	1962.2	1697.6	1763.7	1843.9	1912.1	1972.2	2022.3	2031.3
30°	3863.2	3553.5	2648.6	1728.7	1668.5	1742.7	1814.9	1878.0	1935.1	1984.2	1995.2
32.5°	3942.4	3528.5	2361.0	1594.4	1651.5	1722.7	1781.8	1837.9	1882.0	1904.0	1910.1
35°	4040.6	3496.4	2055.4	1536.3	1640.5	1706.6	1758.7	1788.8	1731.7	1719.6	1732.7
37.5°	4177.9	3466.4	1750.7	1511.2	1633.5	1700.6	1746.7	1669.5	1599.4	1571.3	1581.4
40°	4326.2	3449.3	1544.3	1491.2	1636.5	1706.6	1696.6	1582.4	1481.1	1422.0	1420.0
42.5°	4452.4	3423.3	1412.0	1478.1	1644.5	1729.7	1628.5	1505.2	1354.9	1319.8	1320.8
45°	4537.6	3357.1	1341.8	1464.1	1651.5	1734.7	1596.4	1399.0	1291.7	1269.7	1268.7
47.5°	4572.7	3236.9	1296.8	1442.1	1650.5	1693.6	1531.2	1354.9	1247.6	1241.6	1245.6
50°	4549.7	3039.4	1250.7	1399.0	1626.5	1650.5	1456.1	1315.8	1217.6	1250.7	1274.7
52.5°	4464.5	2783.9	1195.5	1339.8	1583.4	1601.4	1418.0	1291.7	1195.5	1239.6	1258.7
55°	4442.4	2576.5	1125.4	1262.7	1519.2	1514.2	1377.9	1279.7	1180.5	1163.5	1166.5
57.5°	4413.4	2374.0	1009.1	1124.4	1356.9	1364.9	1339.8	1265.7	1141.4	1136.4	1141.4
60°	3834.1	1819.9	899.9	970.1	1114.4	1157.5	1296.8	1239.6	1078.3	1057.2	1056.2
62.5°	2504.3	1102.3	800.7	845.8	907.9	958.0	1182.5	1164.5	1009.1	996.1	1005.1
65°	1346.9	785.7	728.5	755.6	789.7	827.8	980.1	1037.2	911.9	865.8	866.8
67.5°	688.5	668.4	674.4	693.5	719.5	738.6	790.7	840.8	777.6	738.6	737.6
70°	589.3	605.3	614.3	625.3	642.4	639.4	644.4	653.4	648.4	629.3	628.3
72.5°	502.1	527.1	529.1	531.1	537.1	523.1	514.1	499.1	500.1	503.1	504.1
75°	381.8	405.9	411.9	408.9	414.9	396.8	384.8	369.8	351.7	348.7	350.7
77.5°	248.5	267.6	276.6	274.6	277.6	263.6	257.5	241.5	220.5	212.5	212.5
80°	150.3	161.3	168.4	170.4	173.4	163.3	153.3	139.3	130.3	121.3	121.3
82.5°	91.2	98.2	103.2	103.2	106.2	95.2	87.2	77.2	73.2	65.1	65.1
85°	46.1	51.1	53.1	52.1	50.1	41.1	38.1	33.1	31.1	27.1	27.1
87.5°	11.0	14.0	14.0	10.0	10.0	5.0	3.0	1.0	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)