

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: P639460

Luminaire Tested: GWS-SA5B-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12013.5 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

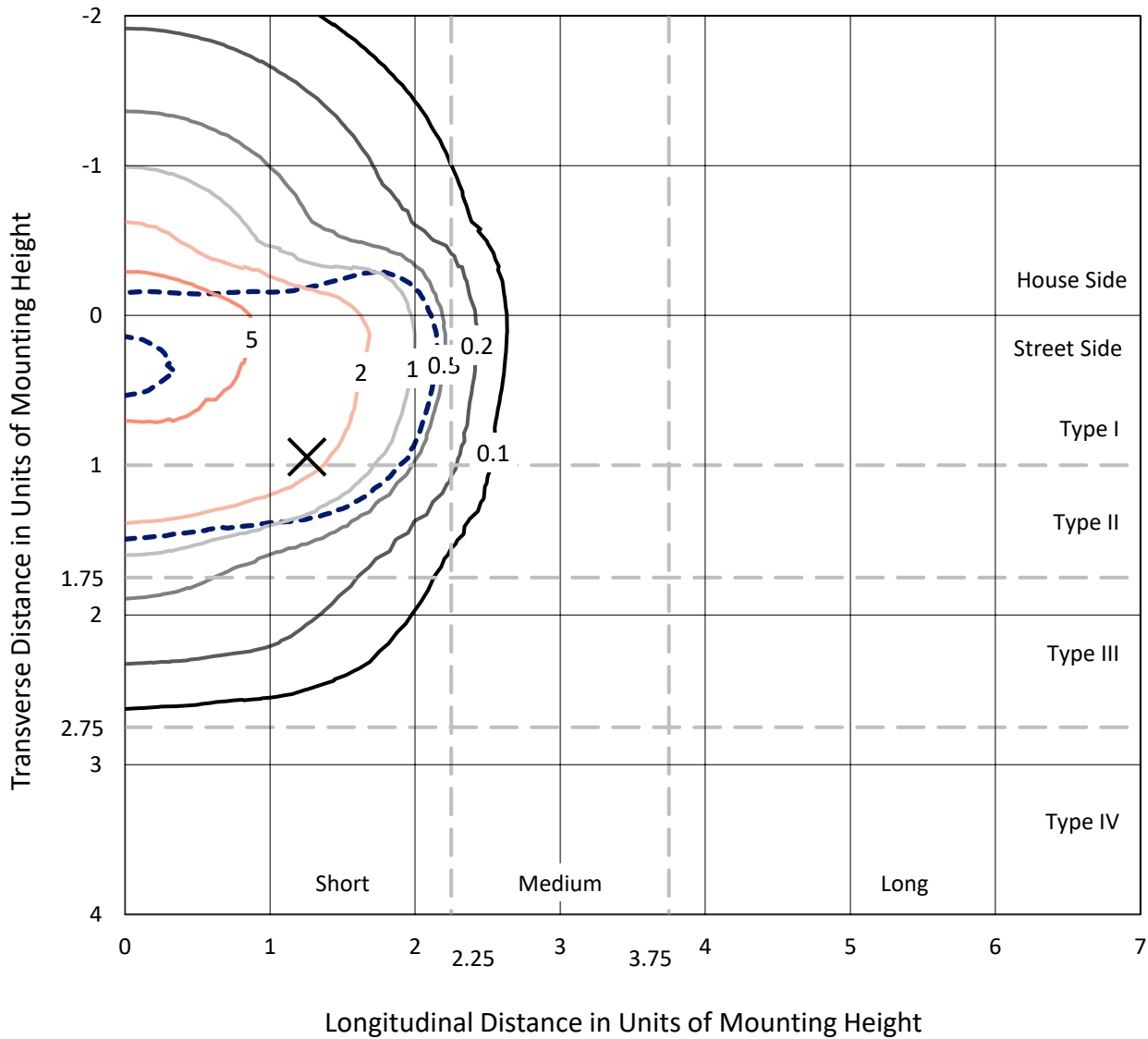
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639460
 CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

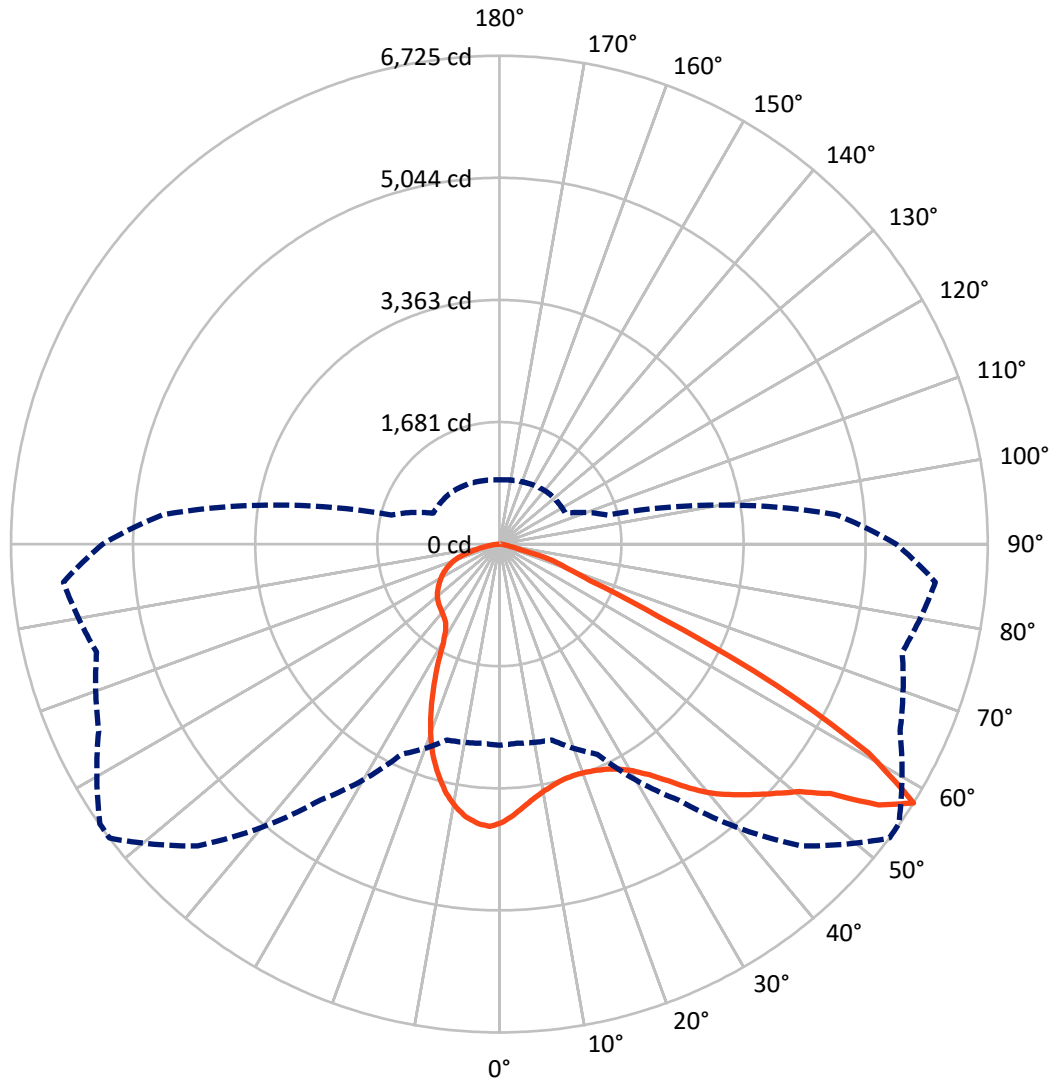
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

REPORT NUMBER: P639460
CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639460

CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3756.2	0.0	3756.2
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8257.3	0.0	8257.3
	% Fixture	68.7	0.0	68.7
Total	Lumens	12013.5	0.0	12013.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	2.9
10°-20°	910.1	7.6
20°-30°	1341.0	11.2
30°-40°	1877.0	15.6
40°-50°	2467.4	20.5
50°-60°	2893.1	24.1
60°-70°	1704.3	14.2
70°-80°	424.0	3.5
80°-90°	49.7	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°	12013.5	100.0
0°-180°	12013.5	100.0

Coefficient of Utilization



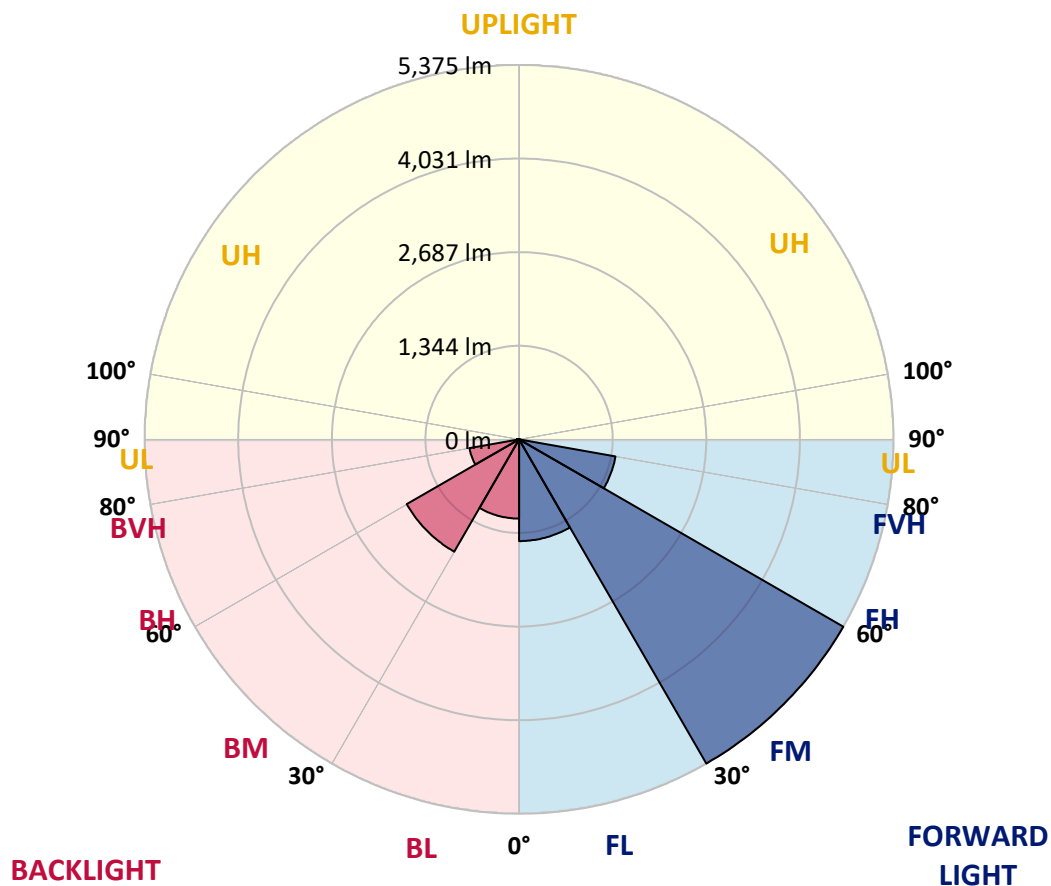
REPORT NUMBER: P639460

CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.6	12.2			
FM (30°-60°)	5374.9	44.7			
FH (60°-80°)	1405.1	11.7			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1137.4	9.5	B3/2500		
BM (30°-60°)	1862.5	15.5	B2/2500		
BH (60°-80°)	723.2	6.0	B2/1000		G2/1000
BVH (80°-90°)	33.1	0.3			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





REPORT NUMBER: P639460

CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2
2.5°	3615.8	3625.9	3627.9	3659.3	3661.3	3706.8	3737.1	3731.1	3762.4	3800.8	3831.2
5°	3442.9	3443.9	3454.0	3491.4	3511.7	3571.3	3621.9	3621.9	3682.5	3761.4	3829.2
7.5°	3300.3	3299.3	3308.4	3349.9	3383.2	3455.0	3523.8	3531.9	3616.8	3732.1	3842.3
10°	3167.9	3175.0	3185.1	3235.6	3278.1	3367.1	3449.0	3462.1	3569.3	3711.9	3860.5
12.5°	3082.9	3084.0	3099.1	3155.7	3210.3	3305.4	3391.3	3407.5	3530.9	3692.7	3873.6
15°	3028.3	3029.4	3045.5	3108.2	3171.9	3268.0	3355.9	3374.1	3508.6	3689.6	3898.9
17.5°	3004.1	3003.1	3018.2	3080.9	3150.7	3250.8	3344.8	3367.1	3518.7	3712.9	3943.4
20°	3004.1	3005.1	3013.2	3069.8	3140.6	3246.7	3355.9	3383.2	3558.2	3765.5	4012.2
22.5°	3046.5	3050.6	3054.6	3093.1	3148.7	3252.8	3385.3	3421.7	3643.1	3853.4	4102.2
25°	3129.5	3130.5	3134.5	3165.9	3191.1	3270.0	3433.8	3488.4	3775.6	3981.8	4215.4
27.5°	3240.7	3254.8	3258.9	3279.1	3279.1	3312.5	3509.6	3588.5	3954.5	4166.9	4360.0
30°	3396.4	3401.4	3408.5	3430.8	3406.5	3392.3	3620.9	3722.0	4161.8	4390.3	4533.9
32.5°	3532.9	3544.0	3582.4	3618.8	3575.4	3530.9	3784.7	3904.0	4361.0	4622.9	4719.0
35°	3649.2	3676.5	3750.3	3831.2	3800.8	3756.4	4002.1	4126.4	4524.8	4789.7	4882.8
37.5°	3789.7	3811.0	3912.1	4043.5	4070.8	4049.6	4267.0	4356.0	4634.0	4832.2	4971.7
40°	3932.3	3964.6	4095.1	4277.1	4381.2	4396.4	4511.7	4571.3	4671.4	4749.3	4954.5
42.5°	4077.9	4133.5	4312.5	4524.8	4709.9	4744.2	4717.9	4743.2	4659.3	4635.0	4874.7
45°	4255.9	4321.6	4523.8	4794.8	5038.5	5092.1	4920.2	4896.9	4657.3	4591.6	4825.1
47.5°	4466.2	4531.9	4725.0	5040.5	5351.9	5391.4	5127.5	5085.0	4728.1	4658.3	4891.9
50°	4652.2	4697.7	4870.6	5223.5	5644.1	5667.4	5356.0	5304.4	4904.0	4843.3	5100.2
52.5°	4463.1	4458.1	4640.1	5074.9	5795.8	6075.9	5707.8	5658.3	5243.7	5150.7	5422.7
55°	3786.7	3729.1	3891.8	4319.6	5372.1	6438.9	6338.8	6239.7	5696.7	5460.1	5725.0
57.5°	2768.5	2752.3	2791.7	3193.2	4303.4	5876.7	6725.0	6715.9	6088.0	5743.2	6026.3
60°	2164.8	2140.6	2035.4	2046.5	2933.3	4590.5	5836.3	6104.2	6330.7	5913.1	6236.7
62.5°	1922.2	1904.0	1849.4	1698.7	1747.2	3077.9	4278.1	4523.8	5531.9	5222.5	5357.0
65°	1591.5	1586.5	1632.0	1625.9	1464.1	1699.7	2414.6	2662.3	3478.3	3521.8	3478.3
67.5°	1156.7	1147.6	1262.9	1490.4	1409.5	1283.1	1345.8	1431.8	1783.6	1601.6	1441.9
70°	752.3	739.1	805.9	1076.9	1261.9	1118.3	969.7	955.5	980.8	609.7	659.3
72.5°	504.6	489.4	488.4	592.5	762.4	753.3	751.3	744.2	664.3	481.3	533.9
75°	281.1	269.0	265.9	255.8	273.0	278.1	296.3	306.4	331.7	365.0	404.5
77.5°	47.5	46.5	58.6	74.8	103.1	132.5	163.8	172.9	213.3	252.8	278.1
80°	26.3	27.3	35.4	43.5	57.6	78.9	101.1	107.2	131.4	152.7	172.9
82.5°	14.2	14.2	18.2	23.3	31.3	41.5	54.6	59.7	75.8	89.0	103.1
85°	5.1	5.1	7.1	9.1	13.1	17.2	21.2	24.3	33.4	45.5	51.6
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.0	4.0	5.1	9.1	13.1
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: P639460

CATALOG NUMBER: GWS-SA5B-830-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2	3836.2
2.5°	3856.5	3829.2	3866.6	3883.8	3889.8	3893.9	3867.6	3849.4	3843.3	3824.1	3813.0
5°	3870.6	3852.4	3887.8	3887.8	3862.5	3836.2	3782.6	3745.2	3718.9	3687.6	3682.5
7.5°	3894.9	3881.7	3900.9	3861.5	3797.8	3727.0	3634.0	3561.2	3502.6	3464.1	3465.1
10°	3927.2	3911.1	3895.9	3807.9	3691.6	3561.2	3418.6	3312.5	3215.4	3170.9	3146.6
12.5°	3948.5	3925.2	3861.5	3715.9	3545.0	3370.1	3168.9	3011.2	2870.6	2806.9	2801.8
15°	3974.8	3932.3	3804.9	3596.6	3359.0	3120.4	2861.5	2642.1	2452.0	2352.9	2347.8
17.5°	4009.1	3939.4	3737.1	3460.1	3162.8	2810.9	2485.4	2209.3	2007.1	1930.3	1943.4
20°	4057.7	3947.5	3660.3	3308.4	2919.1	2459.1	2053.6	1799.8	1722.0	1716.9	1706.8
22.5°	4112.3	3952.5	3575.4	3138.6	2623.9	2083.9	1696.7	1588.5	1587.5	1612.8	1618.8
25°	4174.0	3956.6	3479.3	2940.4	2304.4	1709.8	1500.5	1468.2	1493.4	1541.0	1547.0
27.5°	4252.8	3964.6	3363.0	2723.0	1964.6	1477.3	1392.3	1384.2	1414.6	1459.1	1457.0
30°	4369.1	3994.0	3239.7	2473.2	1615.8	1367.1	1326.6	1327.6	1339.8	1361.0	1364.0
32.5°	4487.4	4039.5	3119.3	2192.1	1415.6	1304.4	1286.2	1284.1	1284.1	1293.2	1295.3
35°	4599.6	4091.0	2988.9	1898.9	1318.5	1268.0	1255.8	1249.8	1246.7	1244.7	1241.7
37.5°	4662.3	4116.3	2861.5	1609.7	1266.9	1243.7	1231.6	1223.5	1212.3	1204.3	1202.2
40°	4635.0	4087.0	2713.9	1393.3	1235.6	1220.4	1206.3	1195.2	1180.0	1172.9	1168.9
42.5°	4544.0	3996.0	2553.1	1291.2	1210.3	1195.2	1178.0	1159.8	1149.7	1143.6	1142.6
45°	4448.0	3885.8	2359.0	1231.6	1186.1	1167.9	1147.6	1127.4	1116.3	1113.3	1112.2
47.5°	4444.9	3831.2	2152.7	1184.0	1156.7	1138.5	1113.3	1093.0	1080.9	1076.9	1072.8
50°	4578.4	3886.8	1920.1	1142.6	1126.4	1107.2	1078.9	1056.6	1041.5	1036.4	1035.4
52.5°	4855.5	4096.1	1711.8	1101.1	1086.0	1063.7	1040.5	1018.2	1000.0	990.9	989.9
55°	5154.8	4362.0	1582.4	1058.7	1038.4	1019.2	998.0	973.7	953.5	939.3	937.3
57.5°	5464.2	4652.2	1543.0	1005.1	989.9	976.8	951.5	925.2	901.9	888.8	885.8
60°	5719.0	4902.0	1616.8	948.4	940.4	923.2	899.9	874.6	858.5	848.3	846.3
62.5°	4787.7	3990.9	1305.4	886.8	886.8	868.6	842.3	824.1	813.0	805.9	803.9
65°	3038.5	2471.2	890.8	825.1	824.1	799.8	777.6	765.4	760.4	749.2	747.2
67.5°	1323.6	1129.4	761.4	762.4	758.3	732.1	709.8	700.7	690.6	678.5	677.5
70°	686.6	699.7	681.5	692.6	685.5	654.2	633.0	618.8	597.6	585.4	586.5
72.5°	554.1	568.3	588.5	605.7	590.5	565.2	531.9	514.7	487.4	474.2	475.2
75°	422.7	437.8	457.0	475.2	463.1	431.8	410.5	393.3	362.0	346.8	349.9
77.5°	291.2	299.3	322.6	321.5	317.5	308.4	277.1	256.8	224.5	206.3	208.3
80°	181.0	186.0	197.2	202.2	200.2	188.1	162.8	147.6	128.4	117.3	118.3
82.5°	109.2	112.2	122.3	123.4	122.3	113.2	94.0	82.9	70.8	64.7	64.7
85°	55.6	57.6	63.7	63.7	57.6	48.5	43.5	38.4	31.3	28.3	28.3
87.5°	15.2	15.2	19.2	16.2	13.1	12.1	6.1	5.1	2.0	1.0	1.0
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)