

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: P640212

Luminaire Tested: GWS-SA5D-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29375.4 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

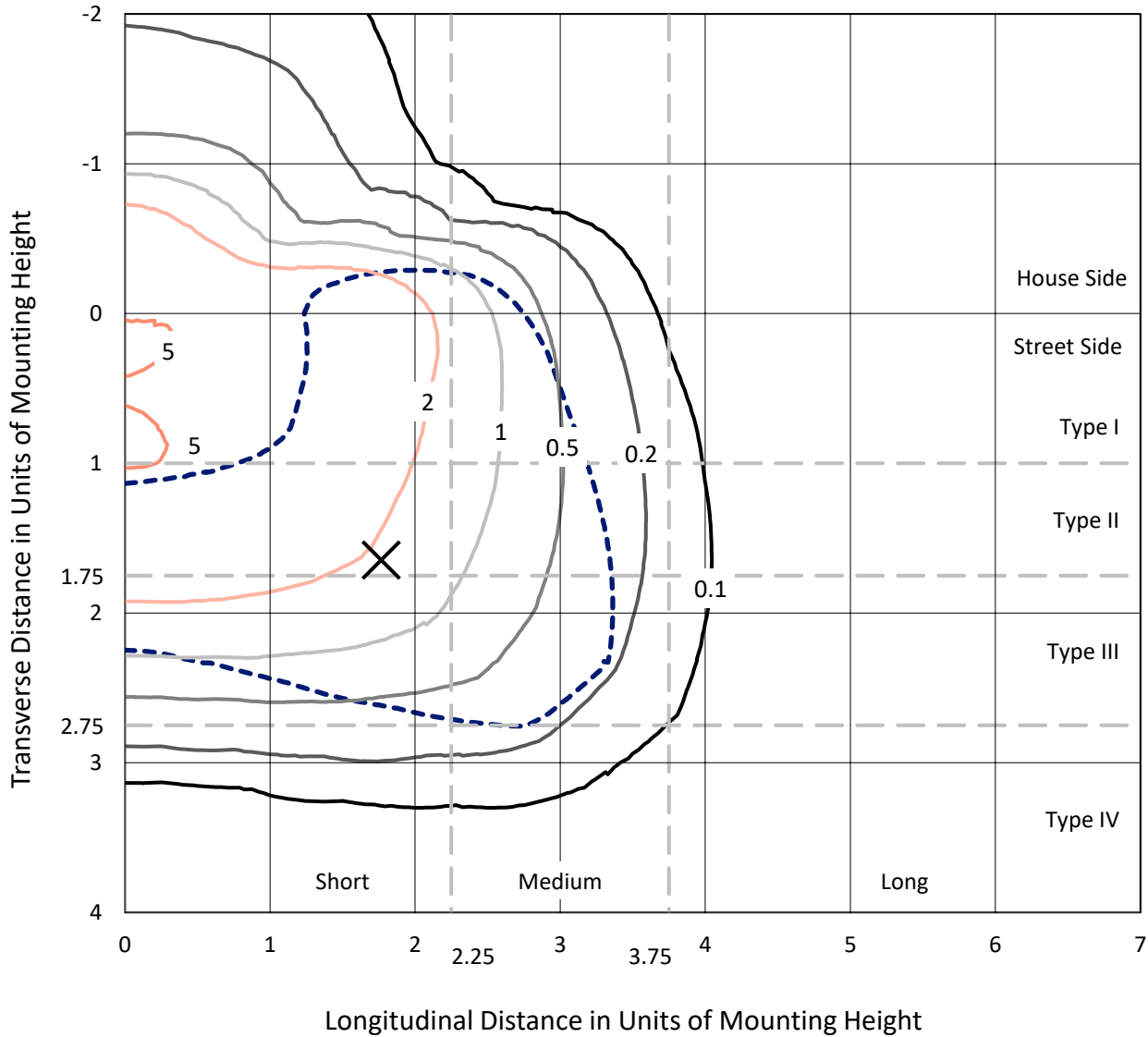
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

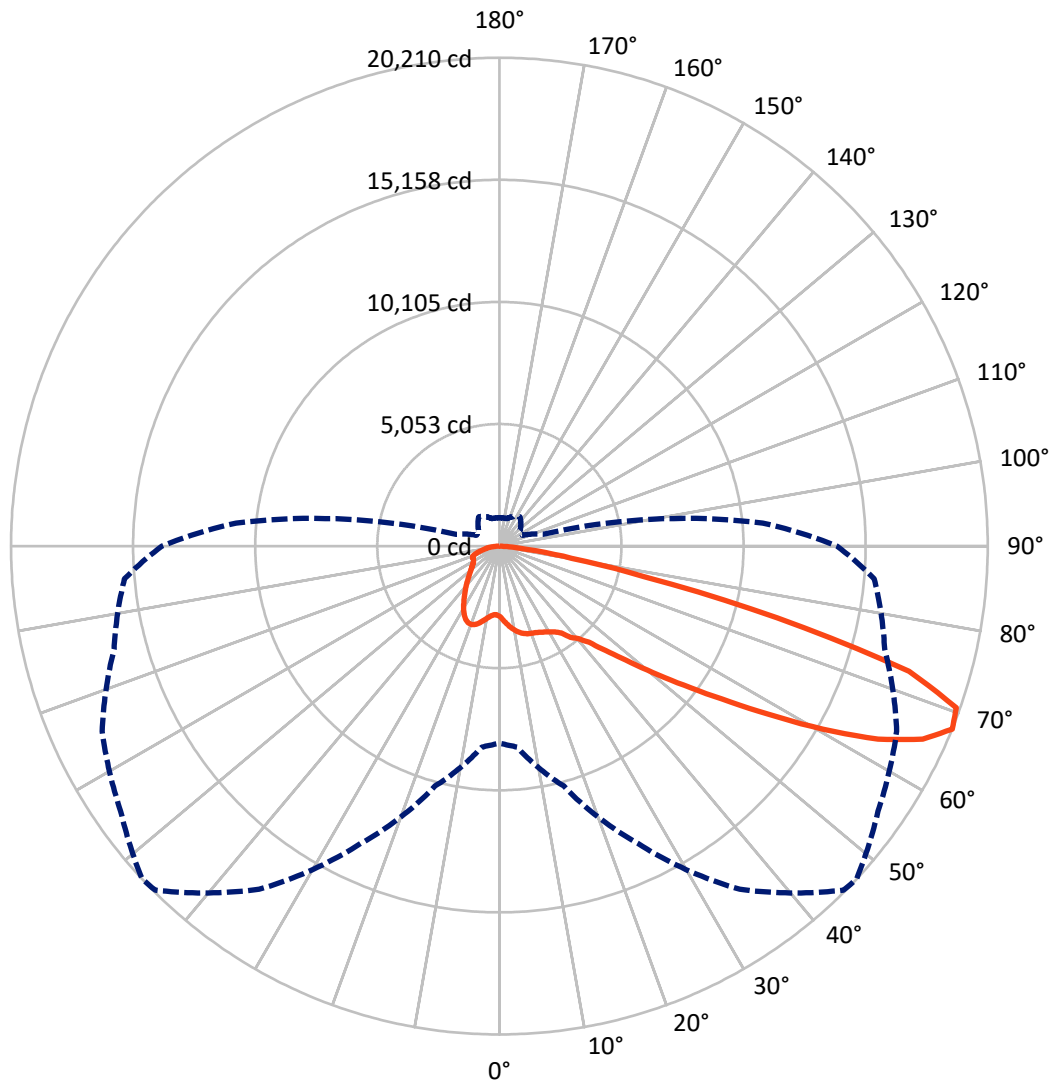
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6694.9	0.0	6694.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	22680.5	0.0	22680.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	29375.4	0.0	29375.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	1.0
10°-20°	991.5	3.4
20°-30°	1685.4	5.7
30°-40°	2468.9	8.4
40°-50°	3761.6	12.8
50°-60°	6730.3	22.9
60°-70°	8980.9	30.6
70°-80°	4061.4	13.8
80°-90°	397.9	1.4
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°	29375.4	100.0
0°-180°	29375.4	100.0

Coefficient of Utilization



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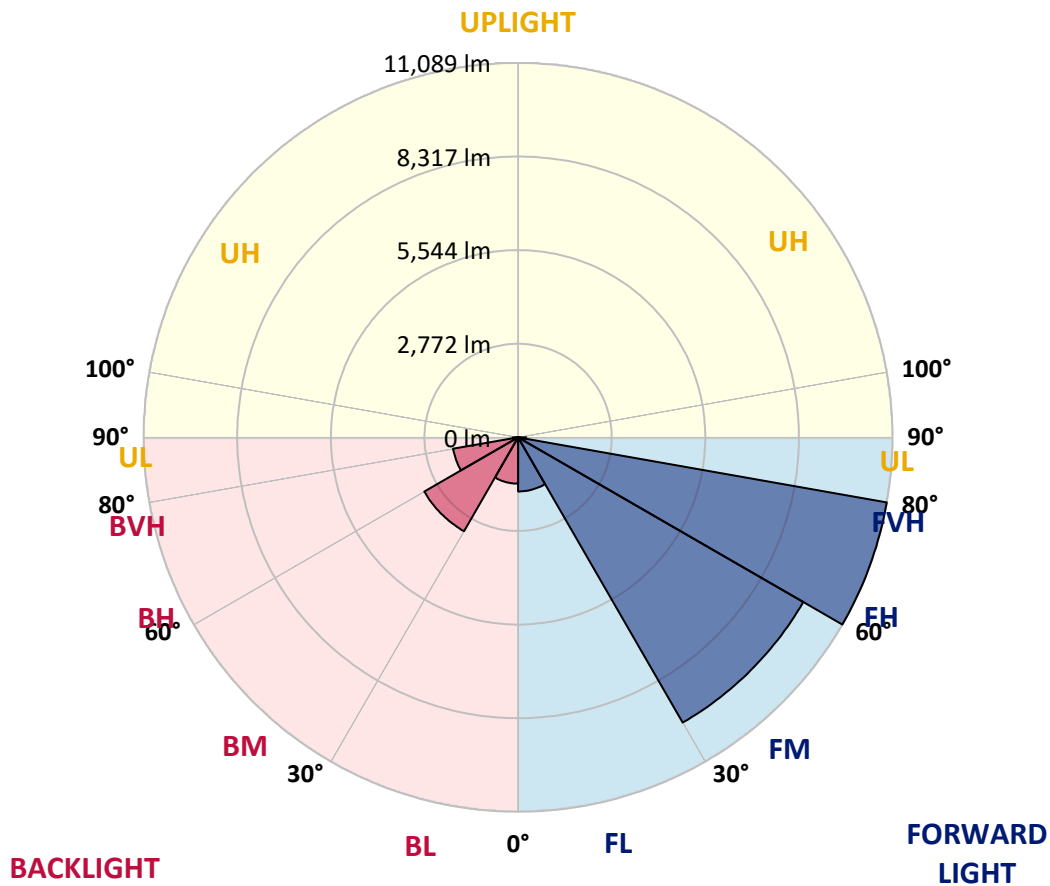
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.0	5.5			
FM (30°-60°)	9752.9	33.2			
FH (60°-80°)	11088.9	37.7			G4/12000
FVH (80°-90°)	236.7	0.8			G3/500
BL (0°-30°)	1372.5	4.7	B3/2500		
BM (30°-60°)	3207.8	10.9	B3/5000		
BH (60°-80°)	1953.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	161.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0
2.5°	3105.3	3115.9	3113.8	3096.8	3086.2	3067.1	3069.2	3039.5	2994.9	2965.1	2931.1
5°	3379.3	3396.3	3375.1	3347.5	3305.0	3243.4	3237.0	3169.0	3084.1	3024.6	2963.0
7.5°	3617.2	3627.8	3602.3	3555.6	3494.0	3411.2	3396.3	3315.6	3209.4	3115.9	3026.7
10°	3802.0	3814.7	3780.8	3719.2	3638.4	3555.6	3545.0	3462.2	3349.6	3239.1	3126.6
12.5°	3959.2	3963.4	3927.3	3844.5	3757.4	3672.4	3661.8	3585.3	3481.3	3368.7	3245.5
15°	4050.5	4052.6	4008.0	3916.7	3833.9	3759.5	3753.1	3687.3	3591.7	3485.5	3353.8
17.5°	4044.1	4048.4	4016.5	3935.8	3863.6	3819.0	3812.6	3770.1	3695.8	3600.2	3468.5
20°	3965.5	3969.8	3948.6	3895.5	3857.2	3844.5	3846.6	3833.9	3789.3	3710.7	3576.9
22.5°	3903.9	3910.3	3891.2	3853.0	3848.7	3878.5	3884.8	3891.2	3870.0	3799.9	3670.3
25°	3933.7	3944.3	3914.6	3861.5	3870.0	3935.8	3948.6	3969.8	3952.8	3893.3	3780.8
27.5°	4139.7	4146.1	4069.6	3961.3	3935.8	4005.9	4025.0	4059.0	4046.3	3991.0	3903.9
30°	4617.6	4613.4	4449.8	4184.3	4078.1	4105.7	4120.6	4169.5	4173.7	4137.6	4054.8
32.5°	5290.9	5269.7	5016.9	4594.3	4286.3	4218.3	4235.3	4301.1	4350.0	4311.8	4199.2
35°	6002.5	5983.4	5705.1	5210.2	4670.7	4435.0	4415.8	4466.8	4541.2	4435.0	4273.5
37.5°	6680.0	6650.3	6365.7	5754.0	5144.4	4815.2	4787.5	4736.6	4692.0	4488.1	4364.9
40°	7431.9	7398.0	7149.5	6457.0	5666.9	5106.1	5036.1	4834.3	4793.9	4664.3	4602.8
42.5°	8234.8	8234.8	8028.8	7347.0	6297.7	5522.5	5431.1	5127.4	5169.9	5084.9	5012.7
45°	9037.7	9061.1	8897.5	8243.3	7141.0	6308.3	6161.8	5730.6	5832.6	5794.3	5758.2
47.5°	9721.6	9766.2	9734.4	9158.8	8173.2	7264.1	7041.1	6593.0	6811.7	6903.1	7005.0
50°	10458.7	10507.5	10475.7	10248.4	9381.8	8421.7	8222.1	7759.0	8135.0	8409.0	8742.5
52.5°	11552.5	11622.6	11357.1	11270.1	10849.5	9736.5	9558.1	9031.3	9713.1	10167.7	10911.1
55°	12476.5	12474.4	12380.9	12580.6	12425.5	11344.4	11146.9	10669.0	11539.8	12022.0	13109.5
57.5°	12905.5	12956.5	13277.3	13842.2	14152.3	13309.1	13120.1	12631.5	13500.3	13750.9	14925.5
60°	13126.4	13190.2	13810.4	14927.6	15762.4	15454.4	15380.0	14757.7	15246.2	15216.5	16456.9
62.5°	12816.3	12943.8	13939.9	15424.6	16911.4	17610.3	17586.9	16645.9	16730.9	16439.9	17406.3
65°	11393.2	11531.3	13094.6	15176.1	17567.8	19250.0	19256.4	18355.8	17871.5	17034.6	17247.0
67.5°	8147.7	8345.3	10278.1	13578.9	17336.3	20135.7	20210.1	19131.1	18139.1	16507.9	15573.3
70°	4441.3	4585.8	6100.2	9870.3	15250.5	19923.3	20061.4	18757.2	16958.2	14279.8	11988.0
72.5°	2017.8	2064.5	2837.7	5416.3	10418.3	17149.3	17727.1	16739.4	13927.2	10547.9	7623.1
75°	923.9	945.2	1236.2	2591.3	5443.9	11476.1	11881.8	12468.0	9691.9	6660.9	3974.0
77.5°	579.9	586.2	703.1	1185.2	2714.5	5728.5	6155.4	7423.5	5675.4	3296.5	1661.0
80°	342.0	348.3	437.5	641.5	1274.4	2621.0	3026.7	2935.4	2667.8	1423.1	756.2
82.5°	172.0	178.4	252.8	365.3	694.6	1042.9	1227.7	1234.1	994.0	771.0	426.9
85°	61.6	63.7	82.8	144.4	295.2	344.1	384.4	469.4	486.4	448.2	206.0
87.5°	0.0	0.0	2.1	4.2	8.5	34.0	36.1	68.0	142.3	159.3	82.8
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°	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0	2912.0
2.5°	2920.5	2888.7	2878.0	2867.4	2850.4	2844.1	2831.3	2818.6	2818.6	2805.8	2799.5
5°	2935.4	2892.9	2865.3	2852.6	2841.9	2848.3	2848.3	2852.6	2867.4	2858.9	2863.2
7.5°	2988.5	2939.6	2901.4	2890.8	2890.8	2916.3	2933.3	2954.5	2982.1	2986.4	2986.4
10°	3082.0	3024.6	2984.2	2977.9	2988.5	3024.6	3050.1	3075.6	3109.6	3111.7	3115.9
12.5°	3183.9	3126.6	3086.2	3094.7	3105.3	3152.0	3179.7	3200.9	3234.9	3234.9	3232.8
15°	3290.1	3226.4	3192.4	3209.4	3241.3	3294.4	3298.6	3300.7	3317.7	3313.5	3311.3
17.5°	3400.6	3332.6	3307.1	3332.6	3366.6	3392.1	3370.8	3341.1	3334.7	3326.2	3322.0
20°	3508.9	3438.8	3428.2	3447.3	3457.9	3436.7	3370.8	3315.6	3290.1	3277.4	3273.1
22.5°	3602.3	3542.9	3536.5	3536.5	3483.4	3409.1	3311.3	3237.0	3203.0	3186.0	3181.8
25°	3712.8	3657.6	3646.9	3589.6	3453.7	3317.7	3186.0	3118.1	3090.4	3082.0	3084.1
27.5°	3842.4	3804.1	3770.1	3606.6	3368.7	3156.3	3007.6	2977.9	2967.3	2977.9	2984.2
30°	4001.7	3963.4	3887.0	3585.3	3232.8	2946.0	2803.7	2801.6	2833.4	2861.1	2865.3
32.5°	4131.2	4114.2	3988.9	3517.4	3041.6	2714.5	2593.4	2601.9	2659.3	2697.5	2703.9
35°	4233.2	4260.8	4073.9	3404.8	2814.3	2495.7	2400.1	2404.4	2436.3	2489.4	2491.5
37.5°	4377.6	4471.1	4150.3	3232.8	2553.1	2306.7	2219.6	2187.7	2183.5	2198.4	2202.6
40°	4668.6	4808.8	4205.6	2982.1	2300.3	2136.8	2039.1	1977.5	1924.4	1884.0	1871.3
42.5°	5108.3	5269.7	4237.4	2678.4	2075.2	1969.0	1858.5	1779.9	1686.5	1601.5	1571.8
45°	5915.4	5968.5	4237.4	2355.5	1875.5	1811.8	1701.3	1607.9	1488.9	1389.1	1367.9
47.5°	7206.8	7036.9	4241.7	2043.3	1699.2	1673.7	1578.1	1471.9	1340.3	1257.4	1244.7
50°	9152.4	8555.6	4328.8	1784.2	1552.7	1556.9	1486.8	1370.0	1251.0	1189.5	1178.8
52.5°	11357.1	10426.8	4562.4	1593.0	1429.5	1461.3	1423.1	1310.5	1204.3	1151.2	1140.6
55°	13430.2	12147.3	4762.1	1457.1	1325.4	1380.6	1378.5	1274.4	1178.8	1125.7	1119.4
57.5°	15193.1	13326.1	4732.3	1346.6	1236.2	1306.3	1338.1	1251.0	1161.8	1117.2	1110.9
60°	16289.1	13950.6	4309.6	1244.7	1168.2	1253.2	1314.8	1244.7	1170.3	1159.7	1161.8
62.5°	16764.9	13835.9	3498.3	1168.2	1123.6	1227.7	1340.3	1289.3	1248.9	1274.4	1289.3
65°	16025.7	12850.3	2574.3	1110.9	1081.1	1234.1	1399.7	1359.4	1248.9	1265.9	1272.3
67.5°	13973.9	10938.7	1860.6	1053.5	1028.0	1253.2	1484.7	1348.8	1176.7	1176.7	1164.0
70°	10070.0	7867.4	1350.9	996.2	974.9	1225.6	1488.9	1276.5	1093.9	1087.5	1055.6
72.5°	6059.8	4641.0	1053.5	932.4	894.2	1087.5	1395.5	1191.6	1013.2	960.1	921.8
75°	3147.8	2325.8	883.6	862.4	766.8	921.8	1276.5	1059.9	866.6	819.9	798.6
77.5°	1348.8	1087.5	758.3	768.9	637.2	775.3	1030.1	917.6	768.9	709.4	690.3
80°	664.8	618.1	599.0	616.0	509.8	599.0	887.8	802.9	652.1	584.1	556.5
82.5°	380.2	361.1	431.2	437.5	363.2	501.3	749.8	679.7	539.5	465.2	420.6
85°	176.3	189.0	261.3	263.4	225.1	344.1	490.6	382.3	286.7	237.9	227.3
87.5°	70.1	82.8	114.7	112.6	65.8	63.7	42.5	23.4	19.1	17.0	14.9
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)