

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: P642956

Luminaire Tested: GWS-SA6D-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642956
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-SA6D-830-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24948.6 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

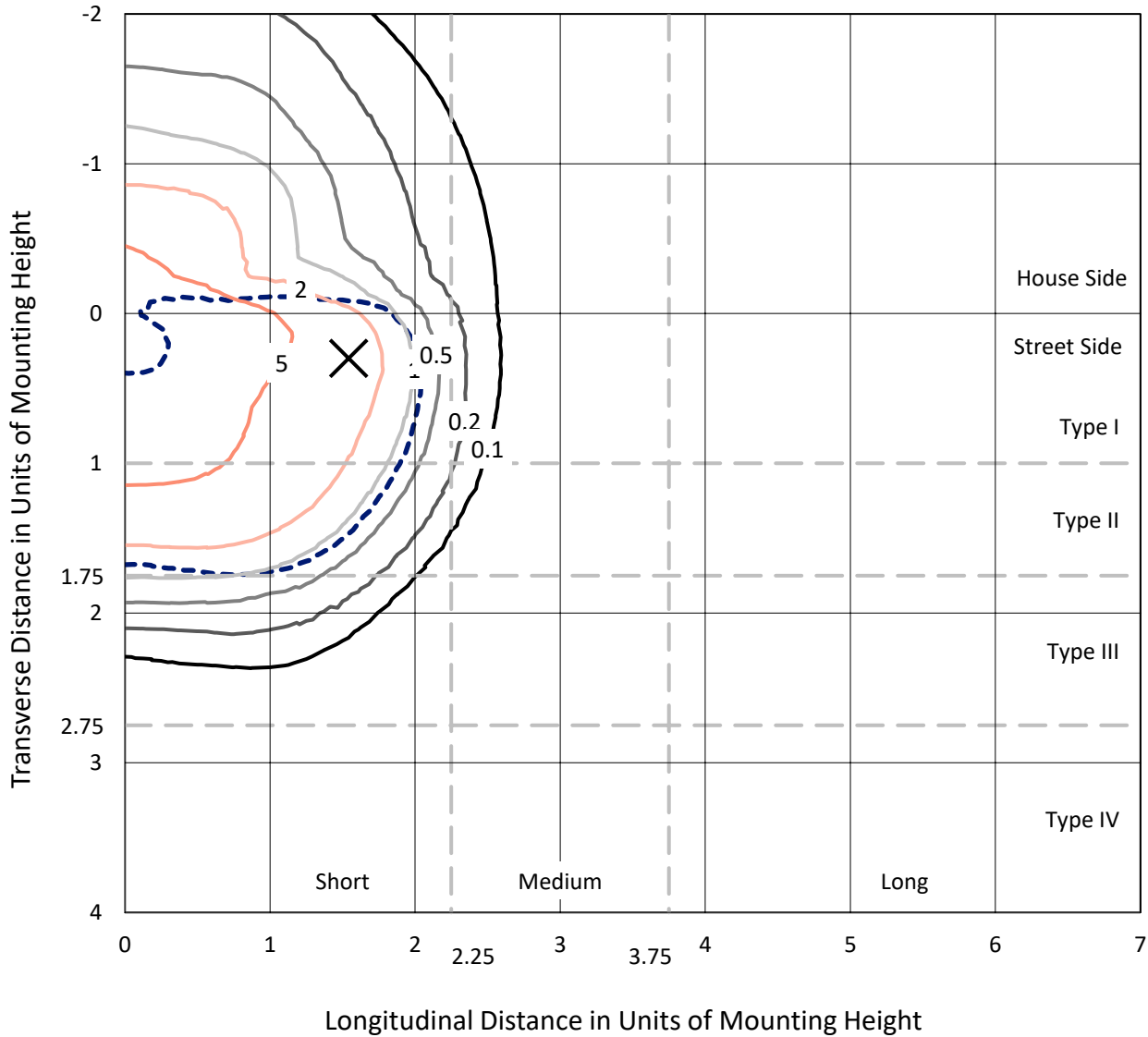
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

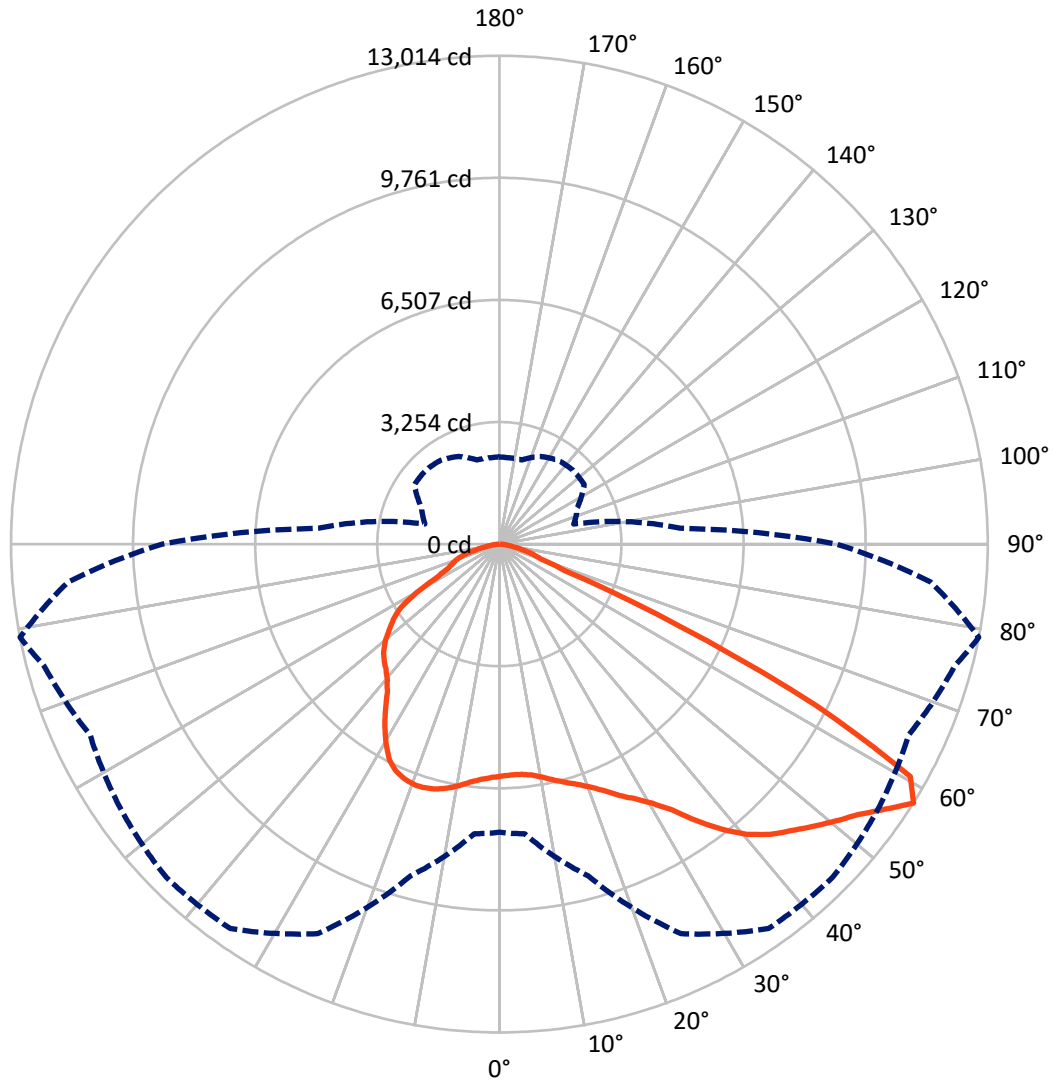
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	7416.1	0.0	7416.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	17532.5	0.0	17532.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	24948.6	0.0	24948.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.6	2.3
10°-20°	1591.2	6.4
20°-30°	2697.2	10.8
30°-40°	4128.4	16.5
40°-50°	5504.8	22.1
50°-60°	6357.6	25.5
60°-70°	3303.6	13.2
70°-80°	702.3	2.8
80°-90°	91.0	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°	24948.6	100.0
0°-180°	24948.6	100.0

Coefficient of Utilization



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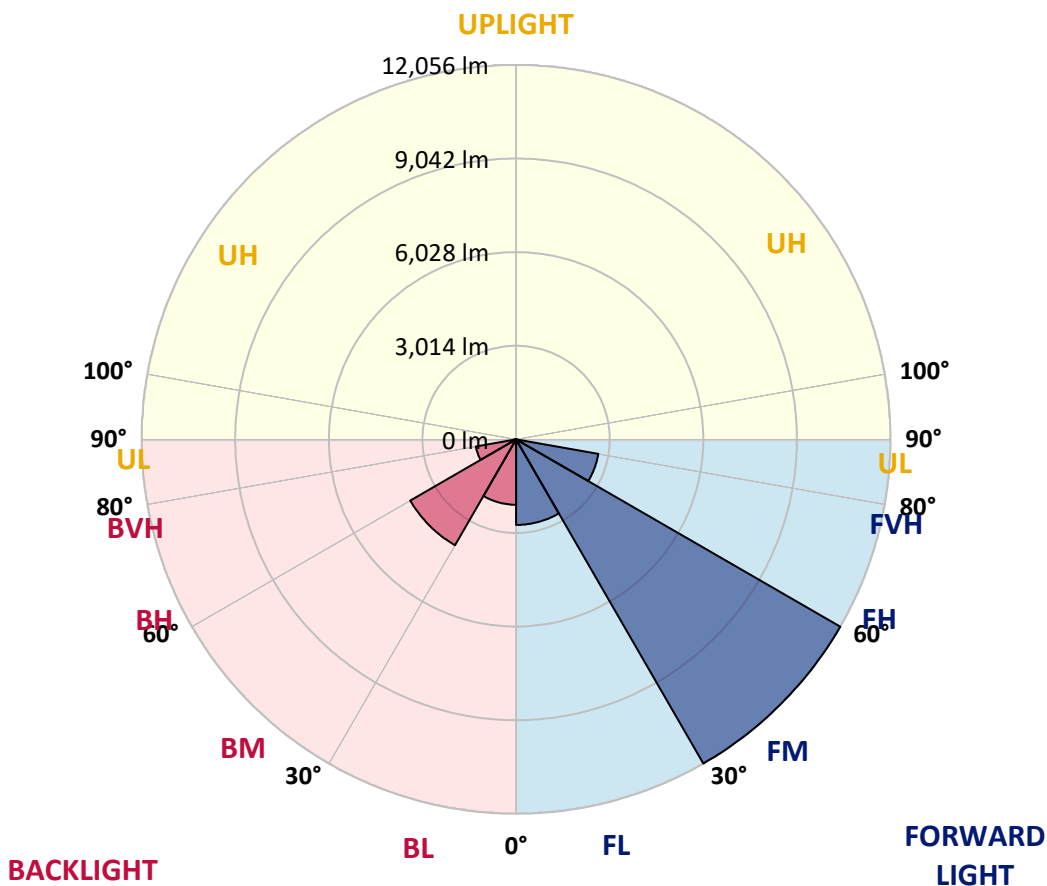
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.9	11.0			
FM (30°-60°)	12055.9	48.3			
FH (60°-80°)	2690.1	10.8			G2/5000
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	2106.1	8.4	B3/2500		
BM (30°-60°)	3934.9	15.8	B3/5000		
BH (60°-80°)	1315.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	59.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8
2.5°	5901.3	5889.1	5893.2	5909.5	5970.7	6015.6	6062.5	6105.3	6146.1	6158.4	6168.6
5°	5691.2	5668.8	5674.9	5701.4	5772.8	5848.3	5931.9	6033.9	6131.8	6164.5	6207.3
7.5°	5542.3	5538.2	5548.4	5589.2	5664.7	5736.1	5844.2	5989.1	6158.4	6213.4	6288.9
10°	5344.5	5336.3	5377.1	5460.7	5585.2	5699.4	5827.9	5999.3	6235.9	6317.5	6433.7
12.5°	5187.4	5183.3	5226.1	5342.4	5501.5	5683.1	5860.5	6052.3	6339.9	6452.1	6594.9
15°	5279.2	5260.8	5262.9	5344.5	5487.2	5701.4	5942.1	6148.2	6443.9	6586.7	6770.3
17.5°	5546.4	5513.8	5489.3	5503.6	5585.2	5807.5	6066.6	6276.7	6564.3	6731.6	6955.9
20°	5915.6	5897.3	5829.9	5785.1	5803.4	5999.3	6262.4	6458.2	6721.4	6909.0	7149.7
22.5°	6411.3	6366.4	6274.6	6203.2	6148.2	6301.2	6543.9	6713.2	6939.6	7135.5	7386.4
25°	7025.3	6960.0	6815.2	6703.0	6584.7	6741.8	6958.0	7086.5	7239.5	7421.0	7659.7
27.5°	7651.5	7596.5	7435.3	7284.4	7137.5	7235.4	7492.4	7565.9	7549.6	7682.1	7886.1
30°	8318.6	8249.2	8096.2	7933.0	7743.3	7806.6	8037.1	8073.8	7900.4	8010.6	8149.3
32.5°	9022.3	8955.0	8822.4	8632.7	8418.5	8443.0	8506.2	8540.9	8375.7	8438.9	8545.0
35°	9738.3	9675.1	9540.5	9352.8	9195.7	9046.8	8887.7	9026.4	8930.5	9052.9	9044.8
37.5°	10393.1	10329.9	10246.3	10101.4	9832.2	9538.4	9171.2	9342.6	9491.5	9646.5	9620.0
40°	10835.8	10792.9	10813.3	10790.9	10444.1	9862.8	9310.0	9497.6	9903.6	10168.7	10154.5
42.5°	11217.2	11174.4	11292.7	11378.4	10970.4	10162.6	9377.3	9556.8	10166.7	10580.8	10560.4
45°	11386.5	11374.3	11570.1	11841.4	11451.8	10480.8	9550.7	9679.2	10366.6	10897.0	10819.5
47.5°	11184.6	11227.4	11613.0	12071.9	11851.6	10858.2	9905.6	9938.2	10627.7	11239.7	11021.4
50°	10782.7	10876.6	11396.7	12078.1	12143.3	11284.5	10397.2	10315.6	10978.6	11604.8	11127.5
52.5°	10197.3	10295.2	11143.8	12031.1	12310.6	11778.2	11052.0	10935.7	11421.2	11969.9	11145.8
55°	8853.0	8985.6	10564.5	11925.1	12473.8	12227.0	11790.4	11553.8	11992.4	12471.8	11327.4
57.5°	7680.1	7749.5	9152.9	11453.9	12506.4	12557.4	12316.7	12035.2	12559.5	13014.4	11531.4
60°	5636.2	5652.5	6915.2	9477.2	11504.9	12365.7	12273.9	11855.7	12290.2	12579.9	10597.1
62.5°	3184.2	3186.3	4194.0	6325.6	8594.0	10079.0	10136.1	9766.9	9401.8	9487.4	7376.2
65°	1195.4	1307.6	1915.4	3108.8	4954.8	5950.3	6186.9	6272.6	5664.7	5287.3	3955.3
67.5°	799.6	826.1	1117.8	1599.3	2205.1	2545.8	2847.7	2855.8	2088.8	1862.4	1558.5
70°	609.9	636.4	879.2	1144.4	1117.8	1032.2	1115.8	1085.2	1121.9	1152.5	1185.2
72.5°	454.9	481.4	681.3	807.8	671.1	660.9	748.6	832.3	909.8	942.4	993.4
75°	301.9	322.3	459.0	432.5	371.3	438.6	546.7	630.3	675.2	714.0	752.7
77.5°	191.7	206.0	244.8	197.9	206.0	257.0	318.2	393.7	436.5	475.3	495.7
80°	87.7	85.7	83.6	93.8	116.3	151.0	191.7	236.6	269.3	285.6	297.8
82.5°	34.7	38.8	42.8	51.0	63.2	81.6	108.1	138.7	165.2	169.3	179.5
85°	14.3	16.3	18.4	22.4	28.6	36.7	44.9	63.2	79.6	85.7	91.8
87.5°	0.0	0.0	0.0	0.0	2.0	4.1	6.1	10.2	18.4	20.4	22.4
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°	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8	6182.8
2.5°	6223.6	6197.1	6242.0	6272.6	6301.2	6270.6	6260.4	6233.8	6229.8	6229.8	6244.0
5°	6280.8	6262.4	6309.3	6327.7	6325.6	6258.3	6217.5	6164.5	6138.0	6138.0	6142.0
7.5°	6382.7	6372.5	6399.1	6370.5	6305.2	6168.6	6033.9	5921.7	5846.3	5807.5	5819.7
10°	6552.1	6539.8	6517.4	6411.3	6223.6	5940.1	5664.7	5460.7	5338.3	5269.0	5273.1
12.5°	6717.3	6696.9	6617.3	6382.7	5997.2	5546.4	5185.3	4956.9	4822.2	4740.7	4722.3
15°	6898.8	6845.8	6674.4	6235.9	5628.0	5065.0	4687.6	4440.8	4296.0	4247.0	4245.0
17.5°	7072.2	6978.4	6668.3	5974.8	5185.3	4561.1	4181.7	4028.7	4004.3	4026.7	4032.8
20°	7247.7	7096.7	6601.0	5613.7	4659.1	4059.3	3863.5	3926.7	4018.5	4079.7	4094.0
22.5°	7429.2	7194.6	6448.0	5148.6	4104.2	3720.7	3802.3	3941.0	4055.3	4136.9	4145.0
25°	7633.2	7286.4	6219.6	4579.5	3659.5	3626.9	3788.0	3934.9	4057.3	4151.1	4167.5
27.5°	7749.5	7288.4	5899.3	3994.1	3455.5	3590.2	3753.4	3892.1	4014.5	4116.5	4134.8
30°	7863.7	7233.4	5391.4	3518.8	3396.4	3547.3	3694.2	3822.7	3939.0	4038.9	4061.4
32.5°	8024.8	7182.4	4805.9	3245.4	3361.7	3506.5	3626.9	3741.1	3830.9	3875.7	3888.0
35°	8224.7	7117.1	4183.8	3127.1	3339.3	3473.9	3580.0	3641.2	3524.9	3500.4	3526.9
37.5°	8504.2	7055.9	3563.6	3076.1	3325.0	3461.7	3555.5	3398.4	3255.6	3198.5	3218.9
40°	8806.1	7021.2	3143.4	3035.3	3331.1	3473.9	3453.5	3221.0	3014.9	2894.6	2890.5
42.5°	9063.1	6968.2	2874.2	3008.8	3347.4	3520.8	3314.8	3063.9	2757.9	2686.5	2688.5
45°	9236.5	6833.6	2731.4	2980.2	3361.7	3531.0	3249.5	2847.7	2629.4	2584.5	2582.5
47.5°	9307.9	6588.8	2639.6	2935.4	3359.7	3447.4	3116.9	2757.9	2539.6	2527.4	2535.6
50°	9261.0	6186.9	2545.8	2847.7	3310.7	3359.7	2963.9	2678.3	2478.4	2545.8	2594.7
52.5°	9087.6	5666.8	2433.6	2727.3	3223.0	3259.7	2886.4	2629.4	2433.6	2523.3	2562.1
55°	9042.7	5244.5	2290.8	2570.2	3092.4	3082.2	2804.8	2604.9	2403.0	2368.3	2374.4
57.5°	8983.6	4832.4	2054.1	2288.7	2762.0	2778.3	2727.3	2576.4	2323.4	2313.2	2323.4
60°	7804.5	3704.4	1831.8	1974.6	2268.3	2356.0	2639.6	2523.3	2194.9	2152.1	2150.0
62.5°	5097.6	2243.9	1629.9	1721.6	1848.1	1950.1	2407.0	2370.3	2054.1	2027.6	2046.0
65°	2741.6	1599.3	1483.0	1538.1	1607.4	1684.9	1995.0	2111.3	1856.3	1762.4	1764.5
67.5°	1401.4	1360.6	1372.8	1411.6	1464.6	1503.4	1609.5	1711.4	1582.9	1503.4	1501.3
70°	1199.4	1232.1	1250.4	1272.9	1307.6	1301.4	1311.6	1330.0	1319.8	1281.0	1279.0
72.5°	1022.0	1073.0	1077.1	1081.1	1093.4	1064.8	1046.5	1015.9	1017.9	1024.0	1026.1
75°	777.2	826.1	838.4	832.3	844.5	807.8	783.3	752.7	716.0	709.9	714.0
77.5°	505.9	544.6	563.0	558.9	565.0	536.5	524.2	491.6	448.8	432.5	432.5
80°	306.0	328.4	342.7	346.8	352.9	332.5	312.1	283.5	265.2	246.8	246.8
82.5°	185.6	199.9	210.1	210.1	216.2	193.8	177.5	157.1	148.9	132.6	132.6
85°	93.8	104.0	108.1	106.1	102.0	83.6	77.5	67.3	63.2	55.1	55.1
87.5°	22.4	28.6	28.6	20.4	20.4	10.2	6.1	2.0	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)