

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: P642737

Luminaire Tested: GWS-SA6D-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28042 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

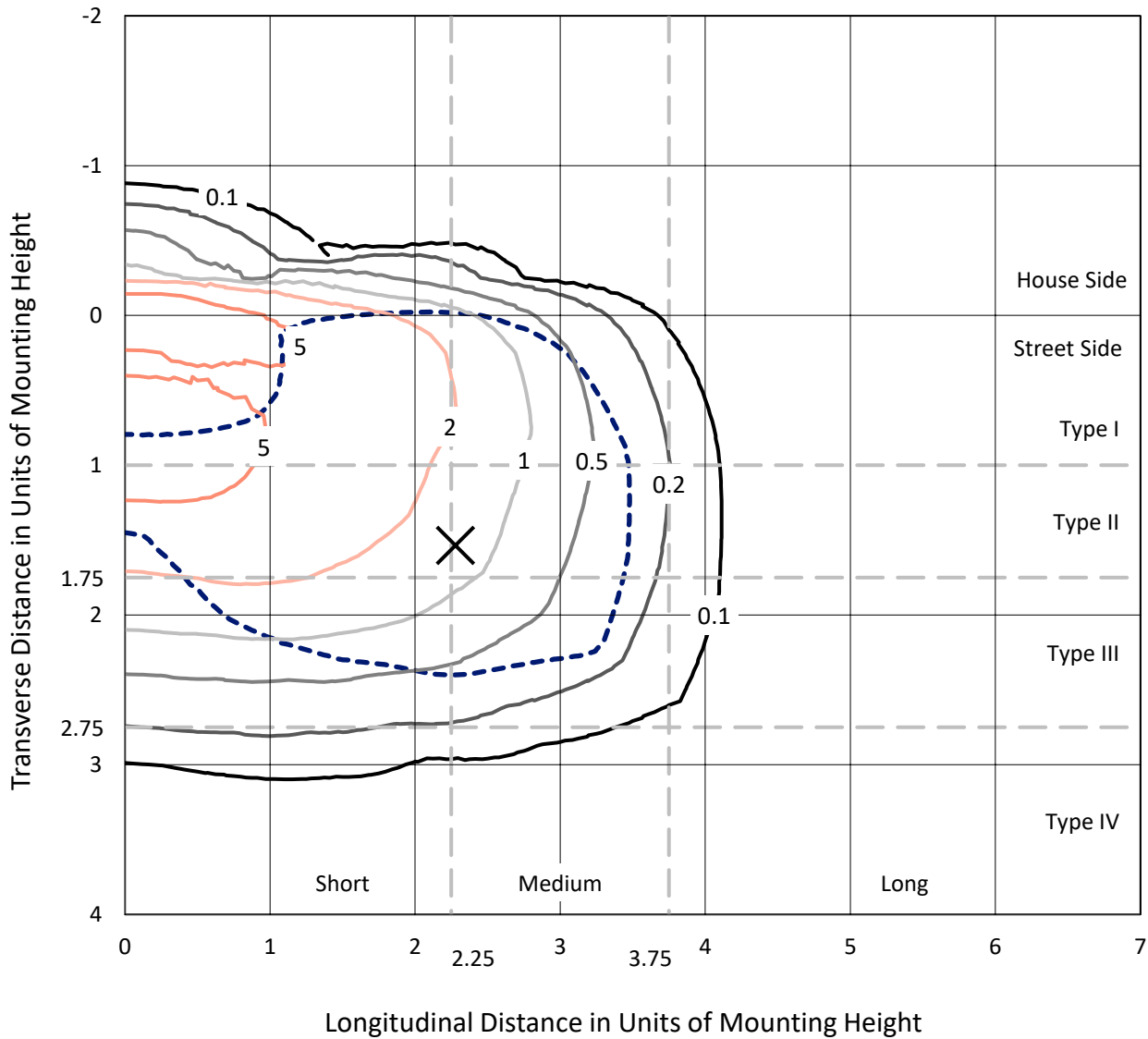
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

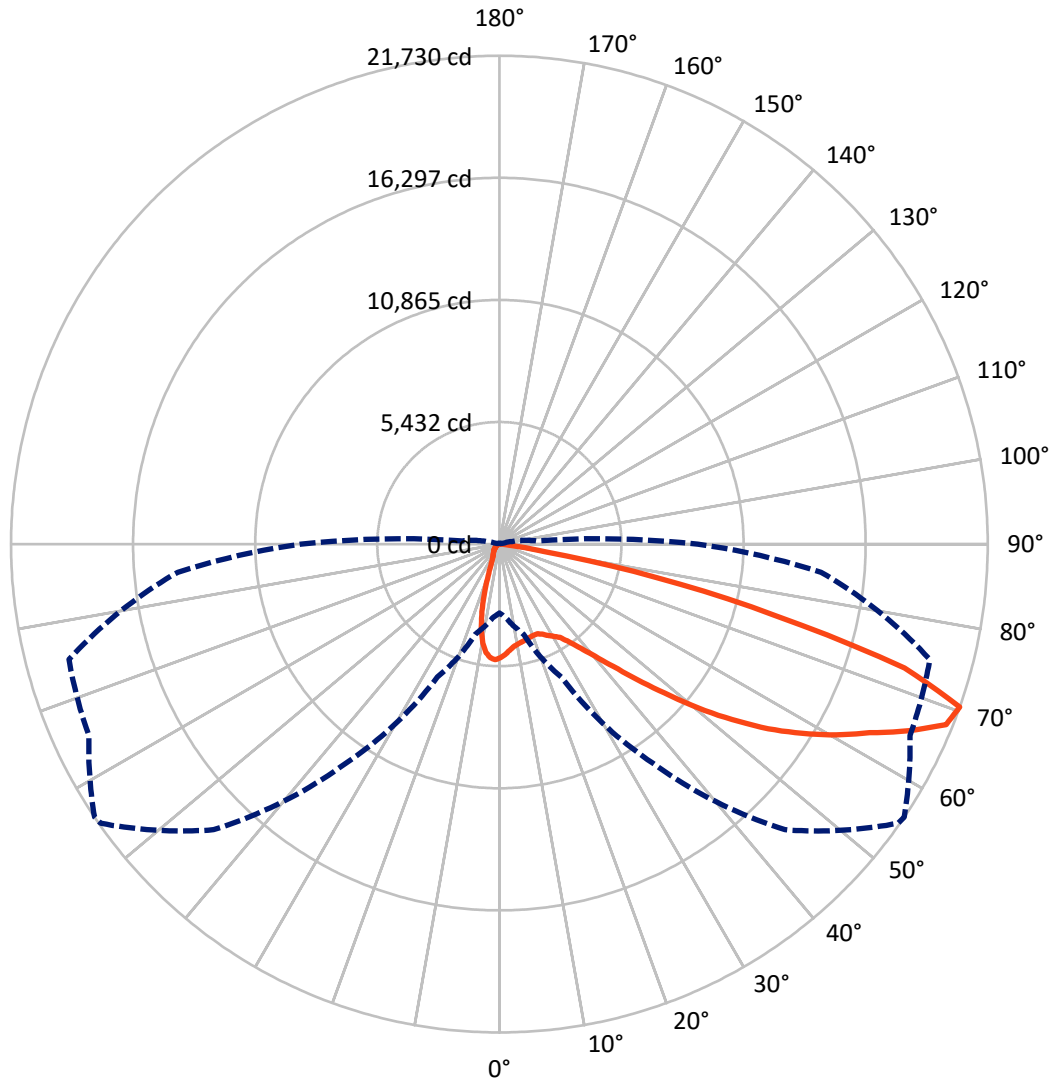
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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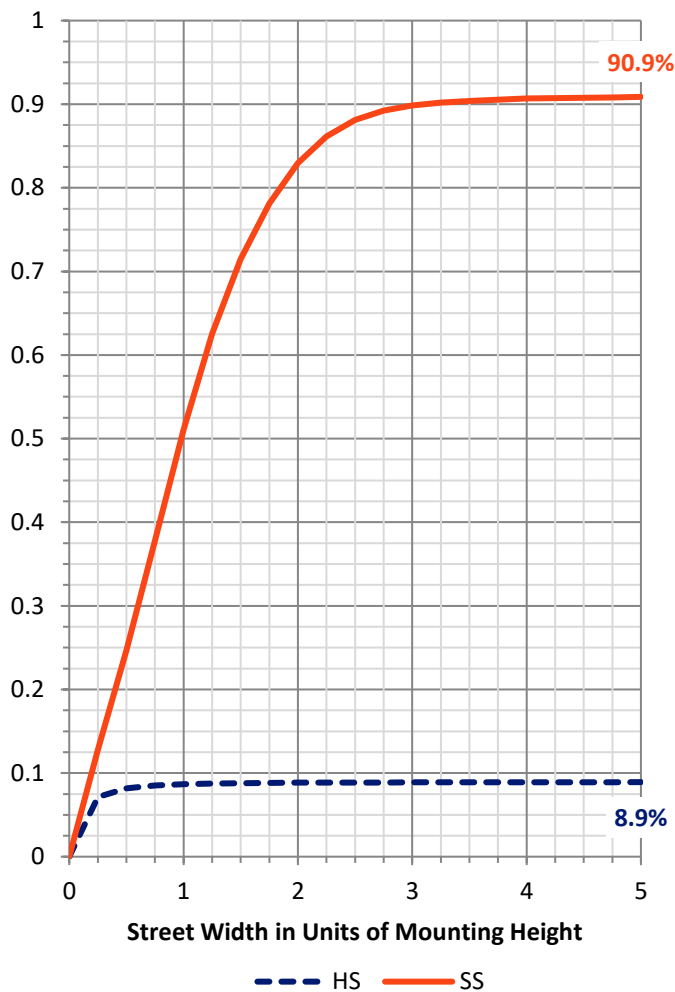
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.7	0.0	2518.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	25523.3	0.0	25523.3
	% Fixture	91.0	0.0	91.0
Total	Lumens	28042.0	0.0	28042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	1.5
10°-20°	976.4	3.5
20°-30°	1546.6	5.5
30°-40°	2667.1	9.5
40°-50°	4503.9	16.1
50°-60°	6617.6	23.6
60°-70°	7845.6	28.0
70°-80°	3345.7	11.9
80°-90°	105.0	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°	28042.0	100.0
0°-180°	28042.0	100.0

Coefficient of Utilization



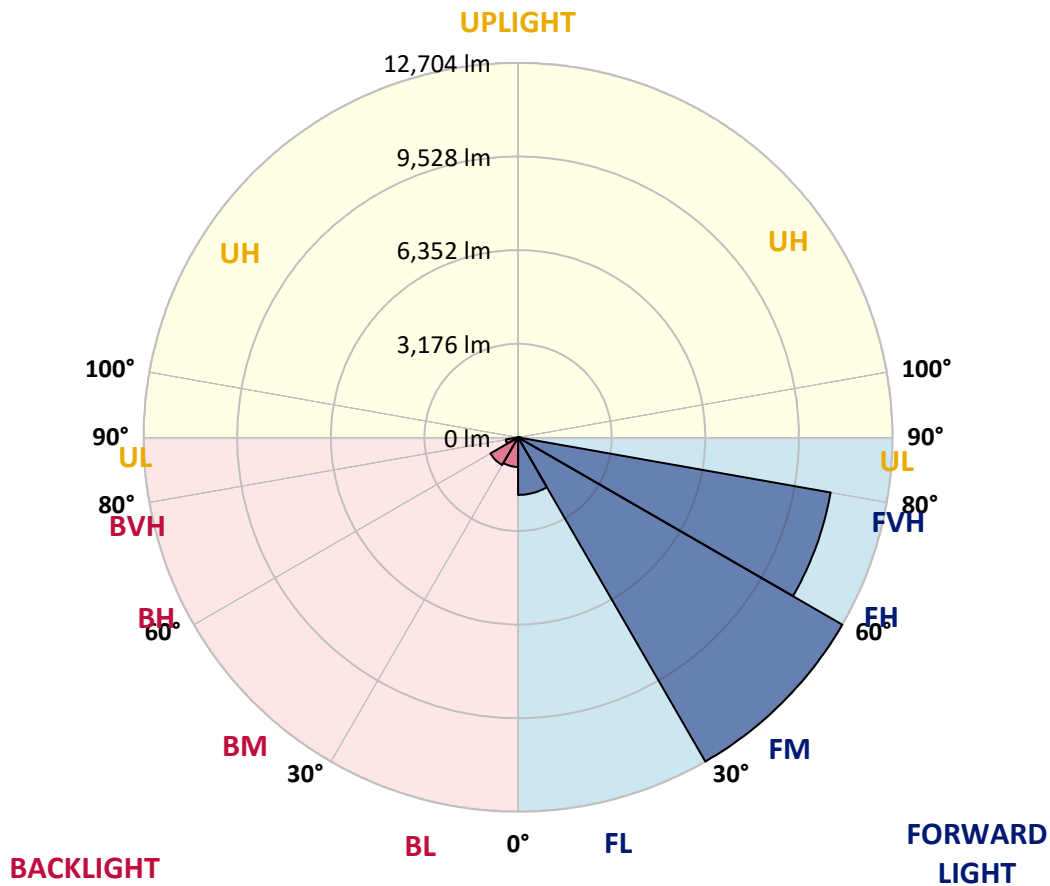
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.0	7.0			
FM (30°-60°)	12703.8	45.3			
FH (60°-80°)	10771.1	38.4			G4/12000
FVH (80°-90°)	94.4	0.3			G1/100
BL (0°-30°)	1003.1	3.6	B3/2500		
BM (30°-60°)	1084.8	3.9	B2/2500		
BH (60°-80°)	420.1	1.5	B1/500		G1/500
BVH (80°-90°)	10.7	0.0			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3
2.5°	4707.0	4699.3	4704.4	4743.0	4814.9	4848.3	4904.7	4915.0	4961.2	5020.3	5043.4
5°	4401.4	4375.8	4388.6	4442.5	4524.7	4617.1	4722.4	4750.7	4866.2	4997.2	5094.8
7.5°	4121.5	4093.3	4124.1	4208.8	4324.4	4424.5	4581.2	4599.2	4784.1	5015.2	5192.4
10°	3682.4	3690.1	3751.7	3900.7	4077.9	4285.9	4496.4	4522.1	4750.7	5074.2	5349.0
12.5°	3346.0	3328.0	3394.8	3564.3	3813.4	4116.4	4432.2	4465.6	4753.2	5164.1	5549.3
15°	3189.4	3184.2	3212.5	3335.7	3577.1	3934.1	4373.2	4416.8	4786.6	5246.3	5739.3
17.5°	3194.5	3186.8	3184.2	3256.1	3435.9	3798.0	4309.0	4365.5	4814.9	5336.2	5939.6
20°	3417.9	3382.0	3317.8	3284.4	3392.2	3710.7	4265.3	4329.5	4856.0	5431.2	6152.8
22.5°	3885.3	3898.1	3726.1	3546.3	3495.0	3720.9	4260.2	4334.7	4945.8	5580.1	6414.7
25°	4820.0	4799.5	4481.0	4077.9	3798.0	3839.1	4350.1	4440.0	5123.0	5793.3	6661.2
27.5°	5991.0	6009.0	5572.4	4930.4	4344.9	4083.0	4514.4	4604.3	5328.5	5926.8	6825.6
30°	7267.2	7249.3	6781.9	6070.6	5120.5	4488.7	4678.8	4758.4	5431.2	5998.7	6995.0
32.5°	8474.2	8433.1	7970.9	7226.2	6109.1	5128.2	4904.7	4951.0	5567.3	6155.3	7223.6
35°	9503.9	9501.3	9098.2	8304.7	7126.0	5929.4	5292.5	5331.0	5821.5	6404.4	7560.0
37.5°	10567.0	10531.1	10079.1	9355.0	8171.2	6807.6	5885.7	5870.3	6222.1	6771.6	7973.4
40°	11440.1	11417.0	11070.3	10374.4	9257.4	7778.3	6604.7	6558.5	6697.2	7280.1	8548.6
42.5°	12087.2	12089.8	11982.0	11558.3	10407.8	8900.4	7508.6	7436.7	7434.2	8047.9	9308.7
45°	12577.7	12611.1	12772.9	12708.7	11766.3	10207.5	8666.8	8592.3	8466.5	9044.3	10179.3
47.5°	12806.3	12849.9	13337.8	13594.6	12955.2	11504.3	10045.7	9889.1	9642.6	10369.3	11152.5
50°	12783.2	12860.2	13540.7	14321.3	14033.7	12819.1	11548.0	11473.5	11070.3	11771.4	12115.5
52.5°	12259.3	12423.6	13553.5	14763.0	14863.2	14031.2	13101.6	12962.9	12767.7	13235.1	13019.4
55°	10836.7	11037.0	13011.7	14904.3	15510.3	15089.2	14621.8	14508.8	14185.2	14616.7	13807.8
57.5°	10063.7	10235.8	11871.5	14834.9	16059.8	16067.5	15975.1	15882.6	15615.6	15982.8	14732.2
60°	9598.9	9771.0	11262.9	14580.7	16558.0	17099.8	17246.2	17235.9	16850.8	17536.4	15815.9
62.5°	8918.4	9154.7	10628.7	13920.8	16912.4	18116.7	18558.4	18489.1	18060.3	19154.2	16889.3
65°	7544.6	7750.0	9329.3	12831.9	16704.4	18959.0	19981.1	20017.0	19521.4	20677.0	17736.7
67.5°	5289.9	5441.4	7010.4	10546.5	15292.0	19236.4	21437.1	21434.5	20589.7	21457.6	17361.8
70°	3066.1	3274.1	4142.1	6520.0	11897.2	17975.5	21655.4	21729.8	20155.7	19827.0	14367.6
72.5°	1186.4	1358.4	2347.1	3464.1	6204.1	13769.2	18627.8	18846.0	16868.7	15294.6	9999.5
75°	354.4	395.5	1104.2	1843.8	2490.9	6650.9	12611.1	12672.7	11571.1	9539.9	5125.6
77.5°	264.5	292.7	482.8	932.2	873.1	2015.8	6525.1	7126.0	6142.5	3407.6	1412.4
80°	179.8	213.1	344.1	454.5	323.6	536.7	1833.5	2013.3	1874.6	765.2	354.4
82.5°	79.6	102.7	244.0	228.5	118.1	154.1	564.9	600.9	387.8	231.1	123.3
85°	7.7	10.3	92.4	100.1	43.7	36.0	118.1	118.1	84.7	79.6	51.4
87.5°	0.0	0.0	2.6	5.1	5.1	7.7	10.3	12.8	15.4	20.5	25.7
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°	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3	5056.3
2.5°	5102.5	5071.7	5110.2	5141.0	5148.7	5092.2	5058.8	5010.0	4999.8	5002.3	4989.5
5°	5171.8	5156.4	5184.7	5151.3	5064.0	4899.6	4758.4	4601.7	4517.0	4468.2	4463.1
7.5°	5300.2	5292.5	5261.7	5110.2	4838.0	4473.3	4121.5	3777.4	3564.3	3487.2	3474.4
10°	5490.2	5474.8	5349.0	4989.5	4409.1	3708.1	3117.5	2624.4	2324.0	2236.7	2128.8
12.5°	5708.5	5677.7	5402.9	4730.1	3762.0	2791.3	2054.3	1502.2	1242.9	1165.8	1165.8
15°	5919.1	5852.3	5372.1	4301.3	2966.0	1815.5	1147.9	868.0	788.4	767.8	767.8
17.5°	6134.8	6006.4	5251.4	3715.8	2049.2	1073.4	765.2	711.3	701.0	703.6	706.2
20°	6337.7	6137.4	5038.3	3012.2	1307.1	749.8	685.6	672.8	667.7	672.8	670.2
22.5°	6558.5	6258.0	4714.7	2244.4	850.0	675.4	652.3	642.0	636.8	644.6	644.6
25°	6776.8	6345.4	4285.9	1509.9	675.4	629.1	616.3	606.0	600.9	603.5	603.5
27.5°	6889.8	6312.0	3723.5	963.0	606.0	582.9	570.1	557.2	549.5	547.0	549.5
30°	6966.8	6209.3	3035.3	685.6	549.5	521.3	508.5	498.2	477.6	464.8	469.9
32.5°	7087.5	6106.5	2288.0	575.2	503.3	459.7	439.1	413.4	385.2	372.3	372.3
35°	7231.3	5965.3	1605.0	518.7	454.5	408.3	369.8	326.1	292.7	282.5	282.5
37.5°	7421.3	5831.8	1068.3	480.2	413.4	364.6	310.7	259.4	223.4	218.3	215.7
40°	7706.4	5718.8	752.4	452.0	377.5	318.4	254.2	200.3	174.6	166.9	166.9
42.5°	8076.1	5603.2	595.8	423.7	346.7	274.8	202.9	159.2	138.7	133.5	131.0
45°	8533.2	5467.1	518.7	398.0	315.9	228.5	161.8	133.5	118.1	113.0	113.0
47.5°	9028.8	5282.2	482.8	364.6	279.9	184.9	136.1	115.6	107.9	105.3	102.7
50°	9516.7	5033.1	452.0	333.8	238.8	151.5	118.1	105.3	100.1	97.6	97.6
52.5°	9943.0	4743.0	413.4	297.9	195.2	131.0	105.3	97.6	92.4	87.3	84.7
55°	10307.7	4427.1	364.6	256.8	159.2	115.6	97.6	89.9	84.7	79.6	77.0
57.5°	10777.6	4247.4	292.7	208.0	131.0	102.7	89.9	82.2	77.0	69.3	69.3
60°	11298.9	4116.4	218.3	164.3	113.0	95.0	82.2	74.5	69.3	61.6	61.6
62.5°	11717.5	3921.2	172.1	133.5	97.6	84.7	74.5	66.8	61.6	53.9	53.9
65°	11876.7	3518.1	141.2	105.3	79.6	74.5	66.8	61.6	53.9	46.2	46.2
67.5°	11157.7	2711.7	118.1	84.7	66.8	64.2	59.1	56.5	46.2	41.1	38.5
70°	8836.2	1653.7	97.6	69.3	56.5	53.9	53.9	48.8	41.1	38.5	36.0
72.5°	6055.2	852.6	79.6	56.5	48.8	48.8	46.2	43.7	38.5	36.0	36.0
75°	3145.7	285.0	61.6	43.7	38.5	41.1	41.1	38.5	36.0	36.0	33.4
77.5°	901.3	128.4	46.2	33.4	30.8	30.8	33.4	33.4	33.4	30.8	30.8
80°	233.7	74.5	33.4	25.7	25.7	25.7	25.7	28.2	30.8	28.2	28.2
82.5°	95.0	41.1	23.1	20.5	20.5	20.5	20.5	23.1	25.7	25.7	25.7
85°	59.1	20.5	18.0	18.0	18.0	15.4	15.4	18.0	18.0	20.5	20.5
87.5°	36.0	15.4	15.4	15.4	15.4	12.8	12.8	12.8	12.8	12.8	12.8
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)