

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: P642670

Luminaire Tested: GWS-SA6D-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26464.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

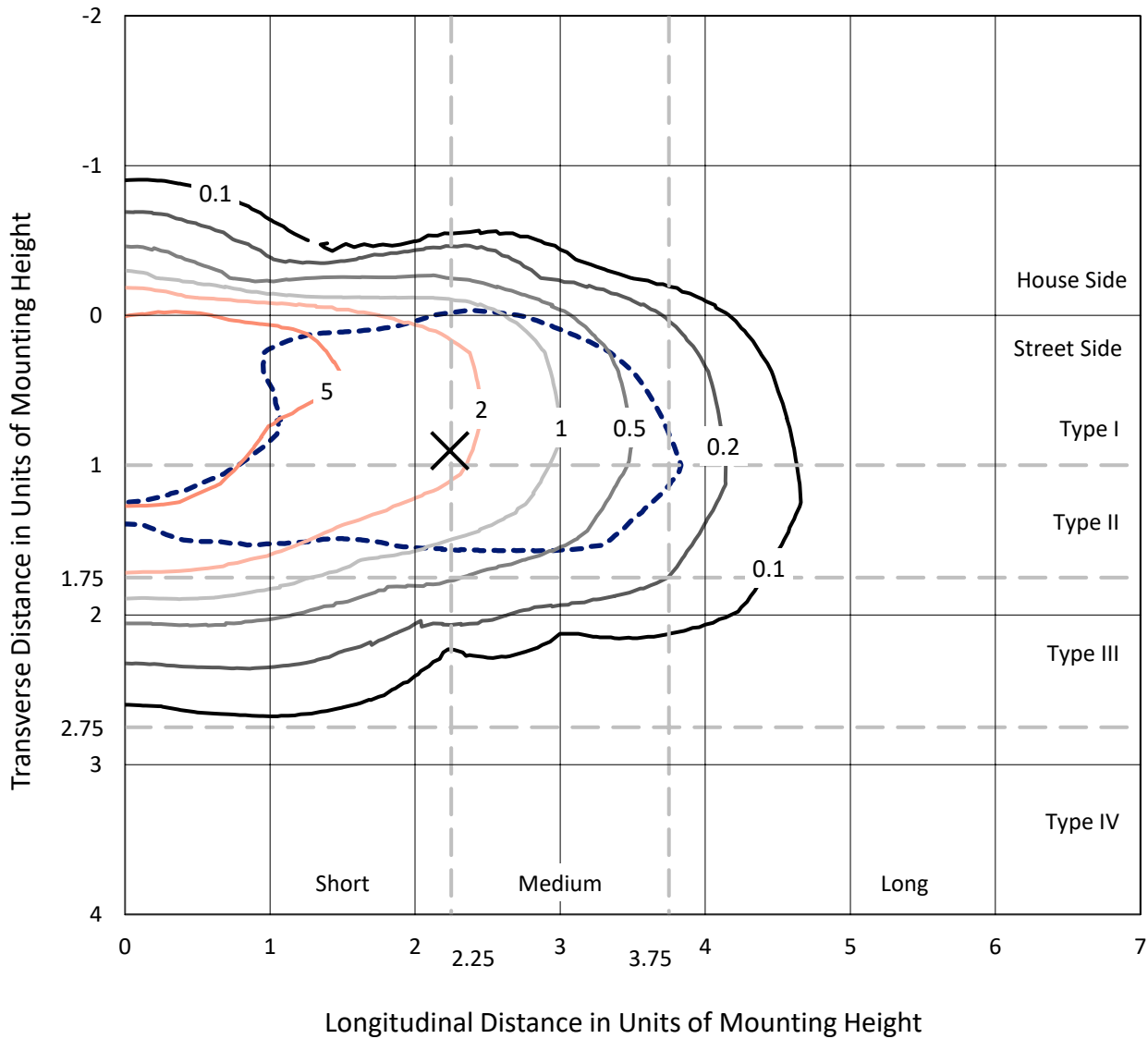
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

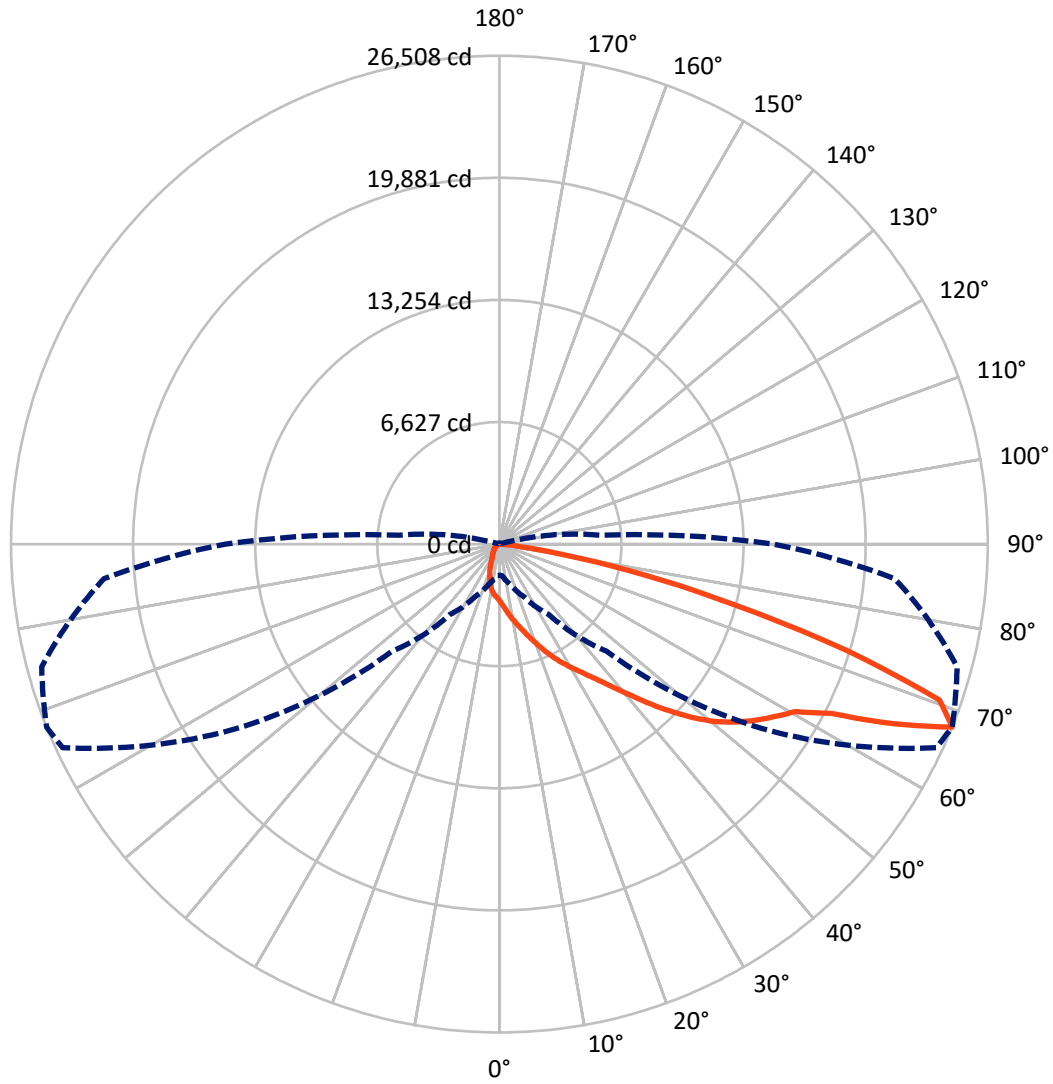
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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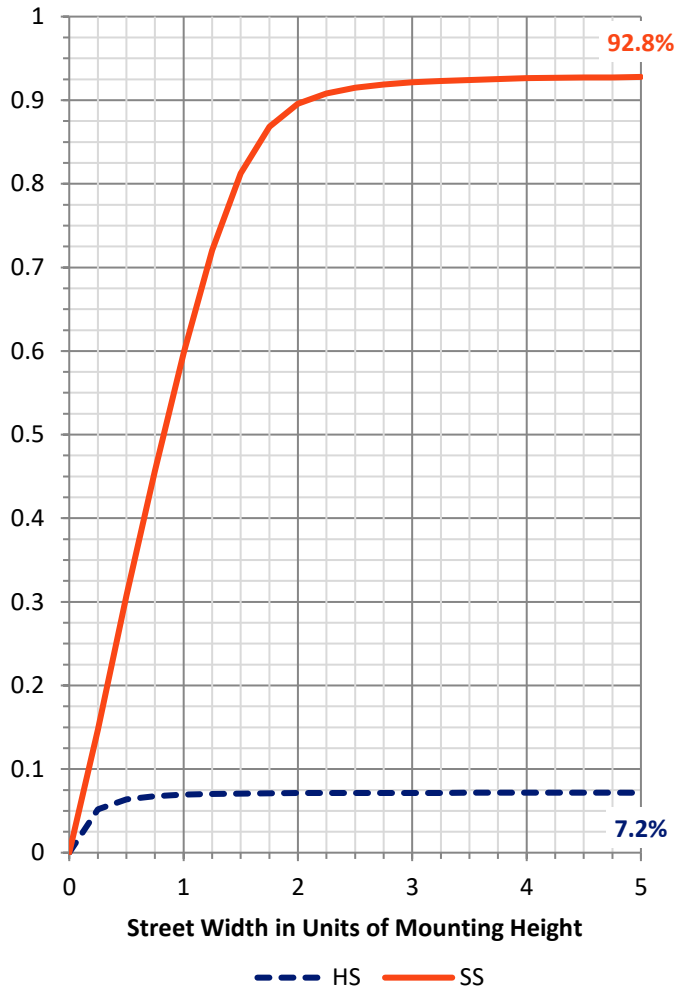
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1911.1	0.0	1911.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24553.7	0.0	24553.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	26464.8	0.0	26464.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	1.1
10°-20°	862.6	3.3
20°-30°	1482.4	5.6
30°-40°	2577.3	9.7
40°-50°	4497.1	17.0
50°-60°	6782.7	25.6
60°-70°	6801.3	25.7
70°-80°	3000.7	11.3
80°-90°	160.3	0.6
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°	26464.8	100.0
0°-180°	26464.8	100.0

Coefficient of Utilization

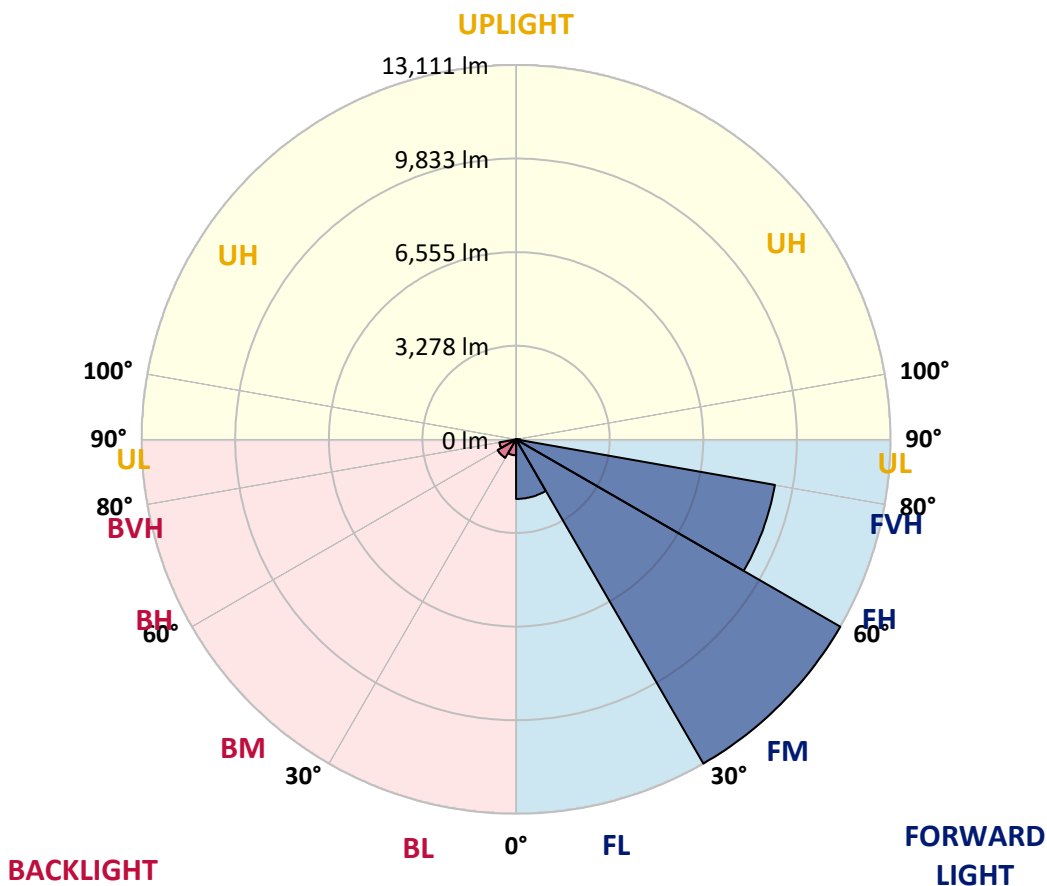


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.2	7.9			
FM (30°-60°)	13110.6	49.5			
FH (60°-80°)	9205.7	34.8			G4/12000
FVH (80°-90°)	151.2	0.6			G2/225
BL (0°-30°)	559.1	2.1	B2/1000		
BM (30°-60°)	746.5	2.8	B1/1000		
BH (60°-80°)	596.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8
2.5°	3586.4	3609.2	3586.4	3591.4	3525.6	3495.2	3429.3	3338.2	3315.4	3257.1	3168.5
5°	4024.5	4044.8	4022.0	4016.9	3941.0	3885.2	3776.3	3619.3	3573.7	3459.7	3285.0
7.5°	4262.6	4275.3	4282.9	4295.6	4267.7	4222.1	4123.3	3928.3	3880.2	3695.3	3449.6
10°	4288.0	4298.1	4336.1	4412.1	4467.8	4495.6	4439.9	4260.1	4184.1	4004.3	3652.2
12.5°	4217.0	4232.2	4293.0	4419.7	4574.2	4716.0	4751.4	4594.4	4526.0	4295.6	3890.3
15°	4123.3	4136.0	4219.6	4391.8	4624.8	4885.7	5032.6	4964.2	4888.2	4647.6	4153.7
17.5°	3979.0	3996.7	4113.2	4346.2	4647.6	5019.9	5336.5	5359.3	5306.1	5045.2	4445.0
20°	3897.9	3910.6	4014.4	4255.0	4632.4	5118.7	5620.2	5835.5	5777.2	5503.7	4779.3
22.5°	3966.3	3976.4	4044.8	4232.2	4581.8	5174.4	5883.6	6311.6	6278.7	5995.0	5131.4
25°	4325.9	4358.9	4318.3	4351.3	4604.5	5204.8	6096.3	6787.8	6795.4	6509.2	5496.1
27.5°	5055.4	5012.3	4916.1	4751.4	4781.8	5285.9	6278.7	7236.1	7301.9	7010.7	5820.3
30°	5797.5	5772.1	5713.9	5458.1	5245.3	5465.7	6433.2	7694.5	7798.4	7504.6	6109.0
32.5°	6630.8	6656.1	6552.2	6245.8	5883.6	5830.4	6592.8	8130.1	8325.2	8064.3	6448.4
35°	7626.1	7633.7	7428.6	7089.2	6678.9	6433.2	6879.0	8611.4	8971.0	8778.5	6901.8
37.5°	8596.2	8641.8	8530.3	7995.9	7631.2	7182.9	7352.6	9229.4	9735.9	9659.9	7471.6
40°	9454.8	9525.7	9490.2	8973.6	8494.9	8117.5	8087.1	9953.7	10660.4	10746.5	8223.9
42.5°	10138.6	10184.2	10212.1	9844.8	9421.8	9209.1	8993.8	10794.6	11752.0	12104.0	9145.8
45°	10860.5	10875.6	10933.9	10685.7	10315.9	10333.6	10065.2	11815.3	12901.9	13608.5	10204.5
47.5°	11779.8	11830.5	11802.6	11541.8	11207.4	11407.5	11172.0	12866.4	14036.5	15214.3	11288.5
50°	12899.3	12952.5	12927.2	12623.2	12250.9	12334.5	12187.6	13887.1	15130.7	16728.8	12190.1
52.5°	13476.8	13519.8	13833.9	13970.7	13775.7	13243.8	13053.8	15009.1	16055.1	17975.0	13018.4
55°	13198.2	13228.6	13912.4	14489.9	15204.1	14672.2	13925.1	15875.3	16870.7	18947.5	13633.8
57.5°	12043.2	12207.9	13137.4	14115.0	15617.0	16083.0	15338.4	16817.5	17655.8	19623.8	14239.1
60°	9675.1	9667.5	10999.8	12755.0	14811.5	16470.5	17334.2	18091.5	18443.5	20143.0	15049.6
62.5°	5346.6	5394.8	7167.7	9480.1	12572.6	15467.5	18831.0	20292.4	20239.2	21049.7	16318.5
65°	2661.9	2758.2	3720.6	5430.2	8365.7	12782.8	19089.4	23650.9	23498.9	23184.8	18939.9
67.5°	1689.3	1727.3	2259.2	3155.8	4650.1	8216.3	17481.1	26155.8	26507.8	25717.6	21541.1
70°	1094.2	1157.5	1570.3	2157.9	2806.3	4234.8	12805.6	24532.3	25340.2	25439.0	19920.1
72.5°	595.2	640.8	1003.0	1539.9	2026.2	2117.4	7193.0	18410.6	19709.9	21579.1	15584.0
75°	339.4	372.3	549.6	1046.0	1486.7	1289.2	3188.7	12324.4	13152.6	15421.9	11166.9
77.5°	205.2	233.0	309.0	509.1	932.1	861.1	1205.6	7502.0	8028.8	9201.5	5860.8
80°	93.7	111.4	195.0	281.1	509.1	407.8	461.0	3497.7	3611.7	3776.3	1940.1
82.5°	43.1	50.7	88.6	167.2	288.7	235.5	177.3	807.9	1137.2	1076.4	493.9
85°	5.1	5.1	32.9	68.4	81.0	60.8	73.4	182.4	230.5	324.2	141.8
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	15.2	22.8	32.9	53.2	35.5
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°	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8	3079.8
2.5°	3128.0	3057.0	2993.7	2900.0	2836.7	2765.8	2717.6	2659.4	2636.6	2618.9	2593.5
5°	3198.9	3084.9	2930.4	2758.2	2616.3	2482.1	2358.0	2276.9	2206.0	2195.9	2160.4
7.5°	3315.4	3145.7	2884.8	2603.7	2363.1	2140.2	1965.4	1823.6	1752.7	1729.9	1689.3
10°	3469.9	3236.9	2816.4	2385.9	2038.9	1772.9	1575.4	1415.8	1304.4	1263.8	1233.5
12.5°	3642.1	3320.4	2707.5	2117.4	1722.3	1418.3	1167.6	997.9	927.0	901.7	878.9
15°	3839.7	3399.0	2535.3	1848.9	1413.3	1043.5	866.2	792.8	762.4	754.8	747.2
17.5°	4029.6	3449.6	2330.1	1570.3	1086.6	810.5	726.9	699.0	691.4	683.8	678.8
20°	4244.9	3485.1	2089.5	1306.9	843.4	686.4	645.9	625.6	610.4	595.2	592.7
22.5°	4465.2	3485.1	1828.6	1048.6	706.6	615.5	569.9	531.9	504.0	488.8	483.8
25°	4675.5	3436.9	1570.3	838.3	623.1	547.1	488.8	445.8	407.8	390.0	385.0
27.5°	4824.9	3312.8	1344.9	709.2	564.8	486.3	415.4	367.2	336.9	319.1	316.6
30°	4918.6	3128.0	1137.2	633.2	514.1	423.0	352.1	311.5	288.7	276.1	271.0
32.5°	4989.5	2900.0	952.3	580.0	466.0	367.2	306.5	273.5	253.3	243.1	240.6
35°	5131.4	2684.7	815.5	531.9	415.4	321.7	268.5	243.1	227.9	215.3	212.8
37.5°	5328.9	2504.9	706.6	488.8	367.2	286.2	243.1	220.3	207.7	195.0	192.5
40°	5620.2	2390.9	625.6	445.8	324.2	258.3	222.9	202.6	184.9	172.2	169.7
42.5°	6068.5	2337.7	572.4	402.7	286.2	233.0	205.2	179.8	162.1	149.4	146.9
45°	6602.9	2365.6	526.8	359.7	260.9	215.3	182.4	157.0	139.3	126.6	124.1
47.5°	7175.3	2464.4	488.8	319.1	235.5	197.6	162.1	134.2	119.0	106.4	103.8
50°	7773.0	2626.5	455.9	281.1	215.3	177.3	139.3	116.5	101.3	91.2	88.6
52.5°	8292.2	2846.8	423.0	253.3	197.6	157.0	121.6	101.3	86.1	76.0	73.4
55°	8788.7	3054.5	397.6	227.9	177.3	136.8	106.4	86.1	73.4	63.3	60.8
57.5°	9328.1	3274.9	367.2	205.2	159.6	121.6	93.7	73.4	63.3	53.2	50.7
60°	10113.3	3601.6	321.7	187.4	139.3	106.4	81.0	65.9	55.7	43.1	40.5
62.5°	11245.4	4196.8	271.0	162.1	119.0	91.2	68.4	55.7	45.6	35.5	30.4
65°	13362.8	5209.9	222.9	134.2	96.2	76.0	58.3	45.6	35.5	25.3	22.8
67.5°	14887.5	5473.3	179.8	108.9	78.5	58.3	48.1	35.5	25.3	17.7	15.2
70°	13015.8	3930.8	139.3	88.6	65.9	45.6	38.0	27.9	17.7	12.7	10.1
72.5°	9806.8	2568.2	103.8	68.4	50.7	38.0	27.9	22.8	15.2	10.1	7.6
75°	6911.9	1484.2	76.0	50.7	35.5	27.9	22.8	17.7	12.7	7.6	7.6
77.5°	3543.3	612.9	53.2	35.5	25.3	17.7	15.2	10.1	10.1	7.6	5.1
80°	1076.4	202.6	30.4	22.8	17.7	12.7	7.6	7.6	7.6	5.1	2.5
82.5°	245.7	65.9	17.7	17.7	12.7	10.1	7.6	2.5	2.5	0.0	0.0
85°	63.3	20.3	15.2	12.7	12.7	10.1	5.1	2.5	0.0	0.0	0.0
87.5°	22.8	12.7	12.7	12.7	10.1	7.6	5.1	0.0	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)