

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: P642644

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29628.2 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

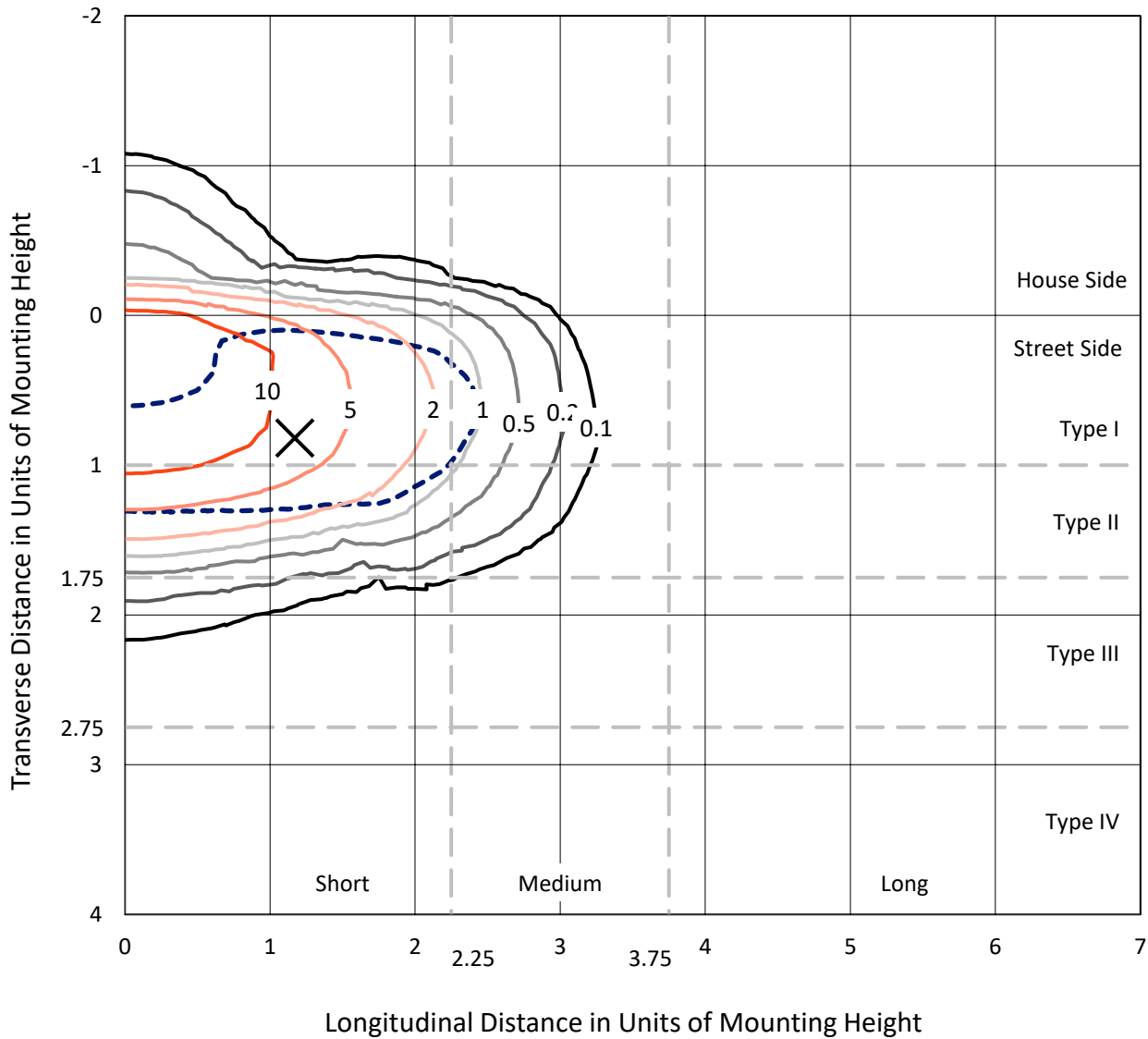
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

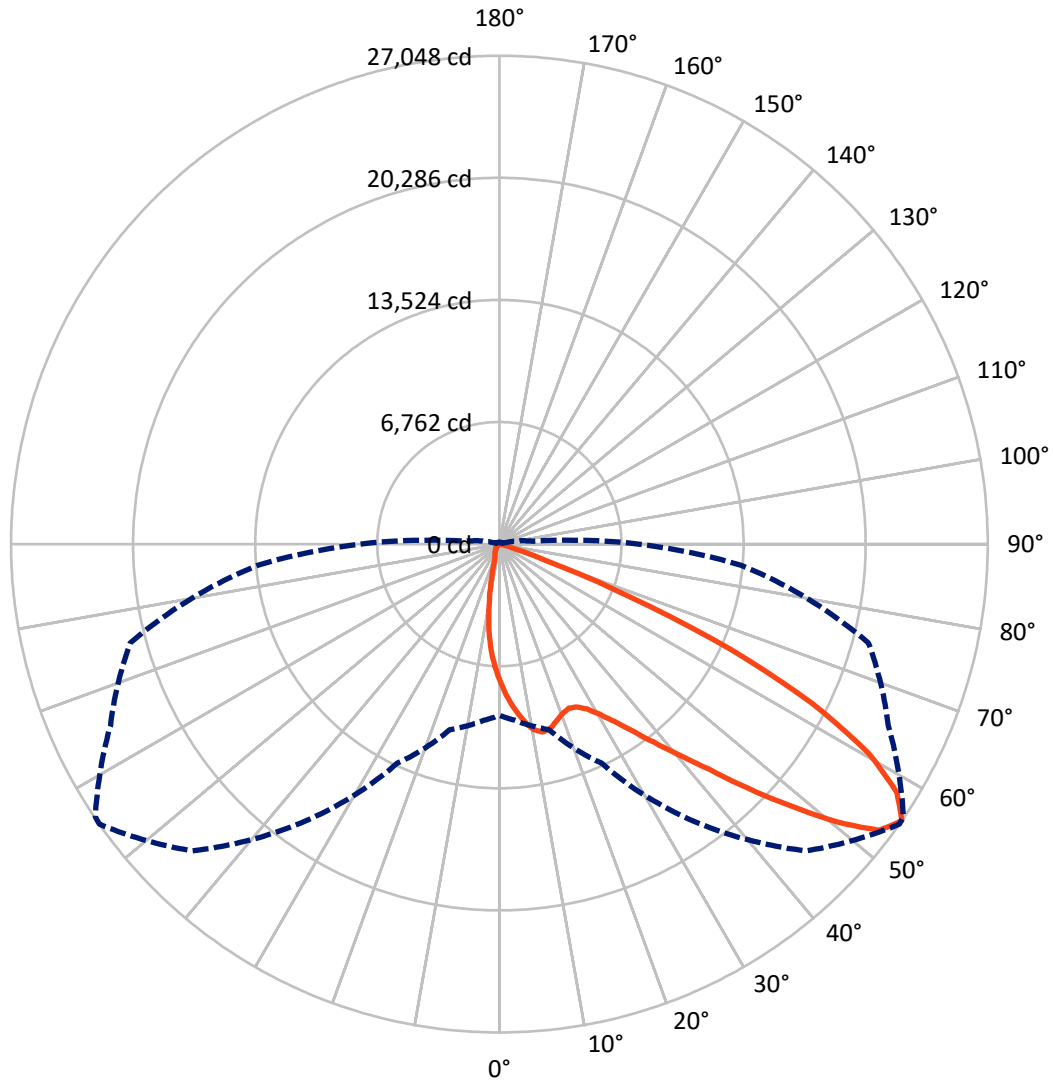
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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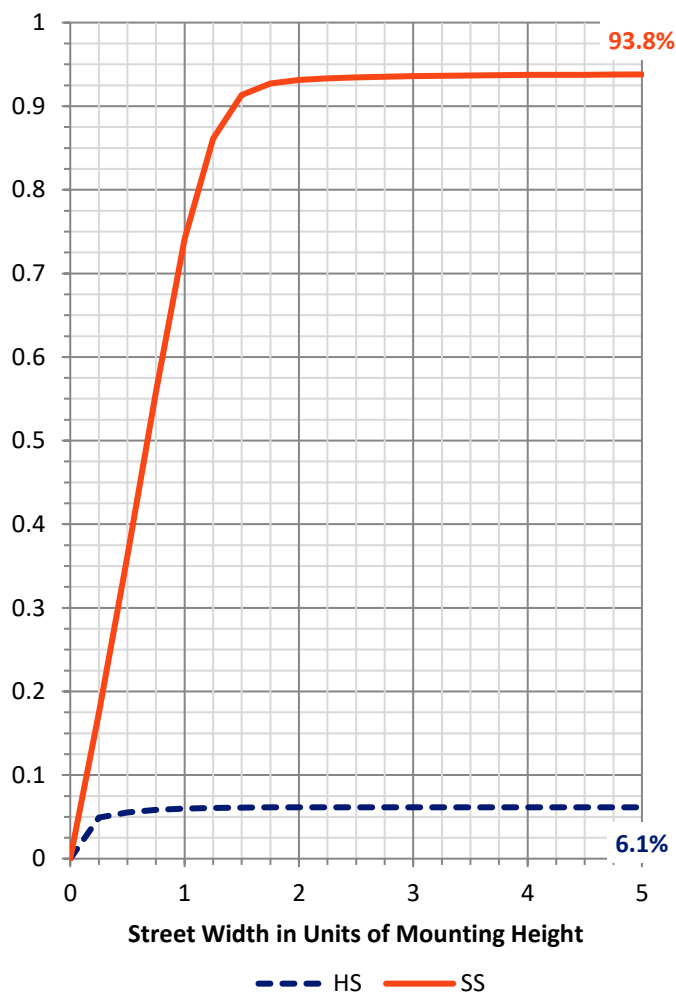
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1828.2	0.0	1828.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27800.0	0.0	27800.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	29628.2	0.0	29628.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.4	2.3
10°-20°	1630.8	5.5
20°-30°	2716.0	9.2
30°-40°	4628.2	15.6
40°-50°	7554.8	25.5
50°-60°	7909.5	26.7
60°-70°	3989.4	13.5
70°-80°	503.9	1.7
80°-90°	19.1	0.1
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°	29628.2	100.0
0°-180°	29628.2	100.0

Coefficient of Utilization



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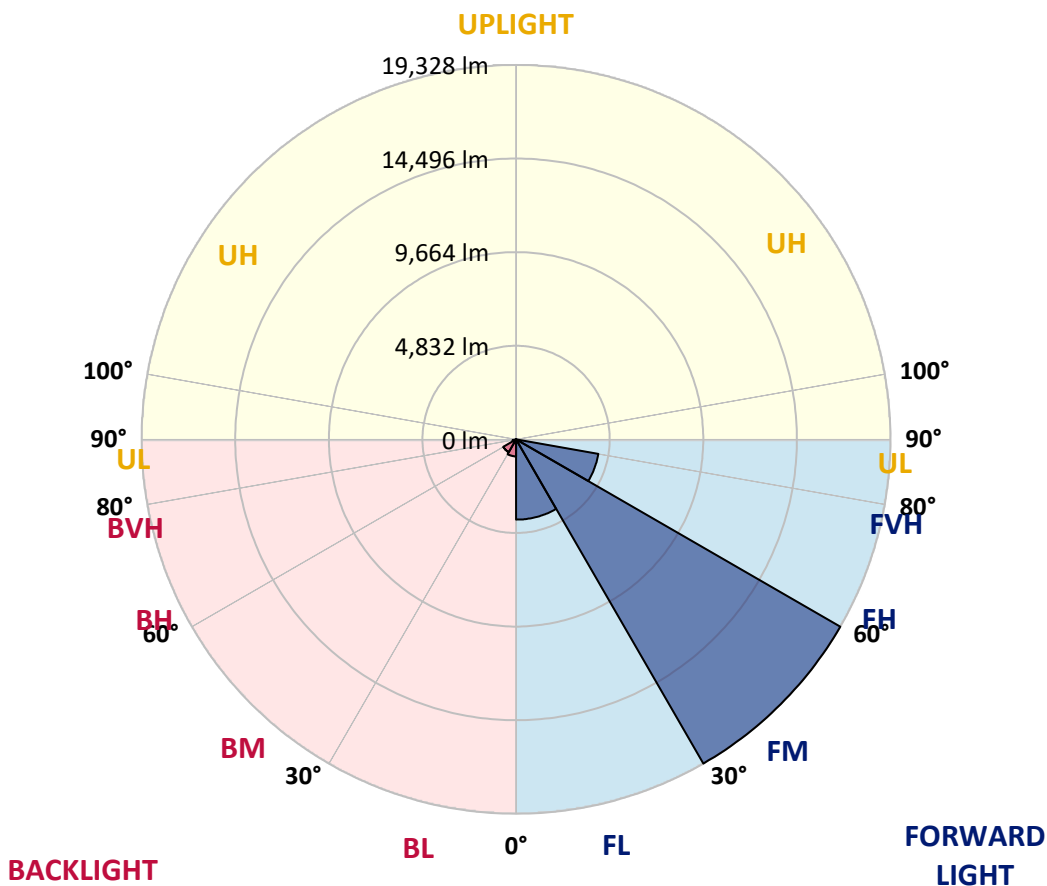
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4144.6	14.0			
FM (30°-60°)	19328.1	65.2			
FH (60°-80°)	4309.9	14.5			G2/5000
FVH (80°-90°)	17.4	0.1			G1/100
BL (0°-30°)	878.7	3.0	B2/1000		
BM (30°-60°)	764.4	2.6	B1/1000		
BH (60°-80°)	183.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2
2.5°	8923.1	8880.1	8945.9	8869.9	8740.8	8631.9	8490.0	8439.4	8211.4	7996.1	7788.4
5°	10007.2	10019.8	9999.6	9893.2	9710.8	9508.2	9222.0	9158.7	8761.0	8350.7	7907.5
7.5°	10275.7	10268.1	10311.1	10351.6	10321.3	10219.9	9908.4	9845.1	9351.2	8735.7	8089.8
10°	9447.4	9452.5	9541.1	9814.7	10154.1	10506.2	10458.0	10422.6	9938.8	9171.4	8292.5
12.5°	8277.3	8322.9	8416.6	8806.6	9381.6	10181.9	10678.4	10713.8	10478.3	9650.1	8530.5
15°	7770.7	7780.8	7856.8	8092.4	8520.4	9508.2	10584.7	10683.4	10929.1	10131.3	8788.9
17.5°	7758.0	7770.7	7803.6	7907.5	8186.1	8978.9	10283.3	10455.5	11268.5	10648.0	9097.9
20°	8234.2	8226.6	8203.8	8148.1	8269.7	8804.1	10004.7	10194.6	11453.4	11152.0	9409.4
22.5°	9097.9	9087.8	8986.5	8756.0	8657.2	8963.7	9867.9	10040.1	11564.9	11600.3	9665.3
25°	10093.3	10164.2	9974.3	9624.7	9381.6	9371.4	9989.5	10111.0	11661.1	11998.0	9840.0
27.5°	11184.9	11207.7	11045.6	10653.1	10301.0	10024.9	10341.5	10432.7	11767.5	12352.6	9938.8
30°	12383.0	12375.4	12190.5	11734.6	11306.5	10908.9	10934.2	10969.7	12015.7	12757.8	10047.7
32.5°	13879.9	13912.8	13583.5	12963.0	12448.8	11899.2	11709.2	11714.3	12464.0	13279.6	10212.3
35°	15913.7	15832.7	15397.0	14513.1	13636.7	13044.0	12719.8	12692.0	13155.5	13981.2	10498.6
37.5°	17851.3	17858.9	17403.0	16430.4	15323.6	14389.0	13930.5	13854.5	14128.1	14953.8	10974.7
40°	19196.3	19221.6	19031.6	18522.5	17349.8	16027.7	15354.0	15275.5	15389.4	16184.7	11597.8
42.5°	19908.0	19978.9	20032.1	20151.1	19262.1	18074.2	17038.3	17030.7	16911.7	17587.9	12319.7
45°	19935.9	20042.2	20366.4	21179.5	21280.8	20409.5	19282.4	19112.7	18654.2	19089.9	12965.5
47.5°	18834.1	19079.8	19768.7	21379.6	22443.3	22732.1	21615.1	21511.3	20224.6	20277.8	13449.3
50°	16265.8	16521.6	17790.5	20353.8	22737.2	24576.0	24175.8	23960.5	21536.6	21063.0	13682.3
52.5°	13631.7	13864.7	14725.8	17912.1	21518.9	25156.0	26333.8	26077.9	22714.4	21336.5	13586.1
55°	9485.4	9797.0	10637.9	13388.5	18712.5	24026.4	27048.0	26994.8	23765.5	21164.3	13436.6
57.5°	4650.3	4959.3	5797.6	8254.5	13862.1	20976.8	25956.4	26237.5	24393.6	20979.4	13315.1
60°	1942.7	2069.3	2358.1	3621.9	7755.5	15852.9	23491.9	23882.0	24008.6	20728.6	13302.4
62.5°	1127.1	1147.4	1177.8	1502.0	3016.6	9087.8	19487.5	20042.2	21984.9	20396.8	13102.3
65°	851.0	858.6	846.0	921.9	1246.1	3447.2	14080.0	14834.7	18350.3	19100.0	12312.1
67.5°	699.1	699.1	666.1	681.3	782.6	1291.7	7773.2	8826.9	13578.5	15698.4	10166.8
70°	557.2	569.9	554.7	534.4	559.8	714.3	2765.8	3429.4	7907.5	9270.1	5929.3
72.5°	423.0	423.0	448.3	433.1	415.4	448.3	965.0	1084.0	3173.6	3865.1	2140.2
75°	326.7	336.9	354.6	339.4	314.1	265.9	463.5	491.4	957.4	899.2	478.7
77.5°	167.2	169.7	225.4	248.2	233.0	162.1	202.6	222.9	311.5	278.6	177.3
80°	101.3	106.4	126.6	195.0	154.5	86.1	83.6	88.6	146.9	126.6	73.5
82.5°	43.1	45.6	70.9	70.9	63.3	32.9	32.9	32.9	70.9	65.9	30.4
85°	0.0	0.0	12.7	10.1	10.1	12.7	12.7	12.7	17.7	25.3	15.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.6	7.6
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°	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2	7654.2
2.5°	7654.2	7492.1	7274.3	7076.7	6810.8	6661.3	6453.6	6283.9	6139.6	6094.0	6073.7
5°	7656.7	7378.1	6912.1	6446.0	5873.6	5422.8	4959.3	4592.0	4290.6	4194.4	4169.0
7.5°	7707.4	7297.1	6542.3	5696.3	4738.9	3948.7	3242.0	2608.8	2315.0	2216.2	2196.0
10°	7775.8	7228.7	6114.2	4797.2	3421.8	2406.2	1704.6	1299.3	1106.8	1000.5	1015.7
12.5°	7864.4	7173.0	5640.6	3824.6	2264.3	1322.1	937.1	785.2	744.7	724.4	714.3
15°	7983.5	7107.1	5053.0	2859.6	1388.0	851.0	721.9	681.3	666.1	656.0	653.5
17.5°	8105.0	7031.1	4455.2	2011.1	921.9	706.7	648.4	628.1	618.0	610.4	607.9
20°	8234.2	6901.9	3753.6	1385.5	726.9	635.7	597.7	575.0	562.3	549.6	547.1
22.5°	8289.9	6694.3	3082.4	970.1	645.9	585.1	537.0	509.1	493.9	483.8	483.8
25°	8236.7	6357.4	2388.5	737.1	587.6	529.4	481.2	450.8	438.2	428.0	428.0
27.5°	8094.9	5924.3	1742.6	610.4	524.3	471.1	425.5	397.7	387.5	382.5	382.5
30°	7937.9	5377.2	1228.4	524.3	453.4	410.3	372.3	354.6	352.1	347.0	347.0
32.5°	7803.6	4865.6	846.0	461.0	400.2	357.1	331.8	324.2	326.7	321.7	324.2
35°	7730.2	4364.1	628.1	410.3	357.1	316.6	303.9	303.9	303.9	301.4	301.4
37.5°	7760.6	3870.2	511.6	374.9	319.1	288.7	276.1	281.1	286.2	286.2	286.2
40°	7912.5	3432.0	453.4	341.9	286.2	263.4	253.3	260.9	268.5	273.5	273.5
42.5°	8105.0	3077.4	410.3	314.1	263.4	238.1	233.0	240.6	248.2	253.3	253.3
45°	8226.6	2720.3	367.3	278.6	240.6	210.2	210.2	220.4	217.8	220.4	220.4
47.5°	8282.3	2436.6	324.2	240.6	205.2	182.4	184.9	190.0	184.9	190.0	190.0
50°	8145.6	2150.4	286.2	200.1	169.7	159.6	164.6	162.1	162.1	172.2	172.2
52.5°	7894.8	1937.6	253.3	169.7	144.4	141.8	146.9	136.8	139.3	139.3	136.8
55°	7709.9	1816.0	225.4	146.9	124.1	126.6	124.1	106.4	96.2	86.1	83.6
57.5°	7618.7	1767.9	205.2	131.7	111.4	111.4	101.3	73.5	55.7	43.1	38.0
60°	7598.5	1709.7	184.9	114.0	98.8	93.7	73.5	43.1	27.9	20.3	17.7
62.5°	7406.0	1567.8	167.2	91.2	86.1	76.0	45.6	25.3	15.2	10.1	7.6
65°	6775.3	1289.2	149.4	70.9	65.9	55.7	27.9	15.2	7.6	2.5	0.0
67.5°	5389.8	914.3	131.7	53.2	45.6	35.5	17.7	10.1	2.5	0.0	0.0
70°	3107.8	493.9	108.9	38.0	30.4	22.8	12.7	5.1	0.0	0.0	0.0
72.5°	1038.5	230.5	83.6	25.3	22.8	17.7	7.6	2.5	0.0	0.0	0.0
75°	228.0	136.8	55.7	17.7	15.2	12.7	5.1	0.0	0.0	0.0	0.0
77.5°	86.1	96.2	27.9	12.7	10.1	7.6	2.5	0.0	0.0	0.0	0.0
80°	32.9	63.3	12.7	7.6	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	25.3	7.6	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.1	12.7	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	2.5	2.5	0.0	0.0	0.0	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)