

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: P643224

Luminaire Tested: GWS-SA6E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36101.7 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

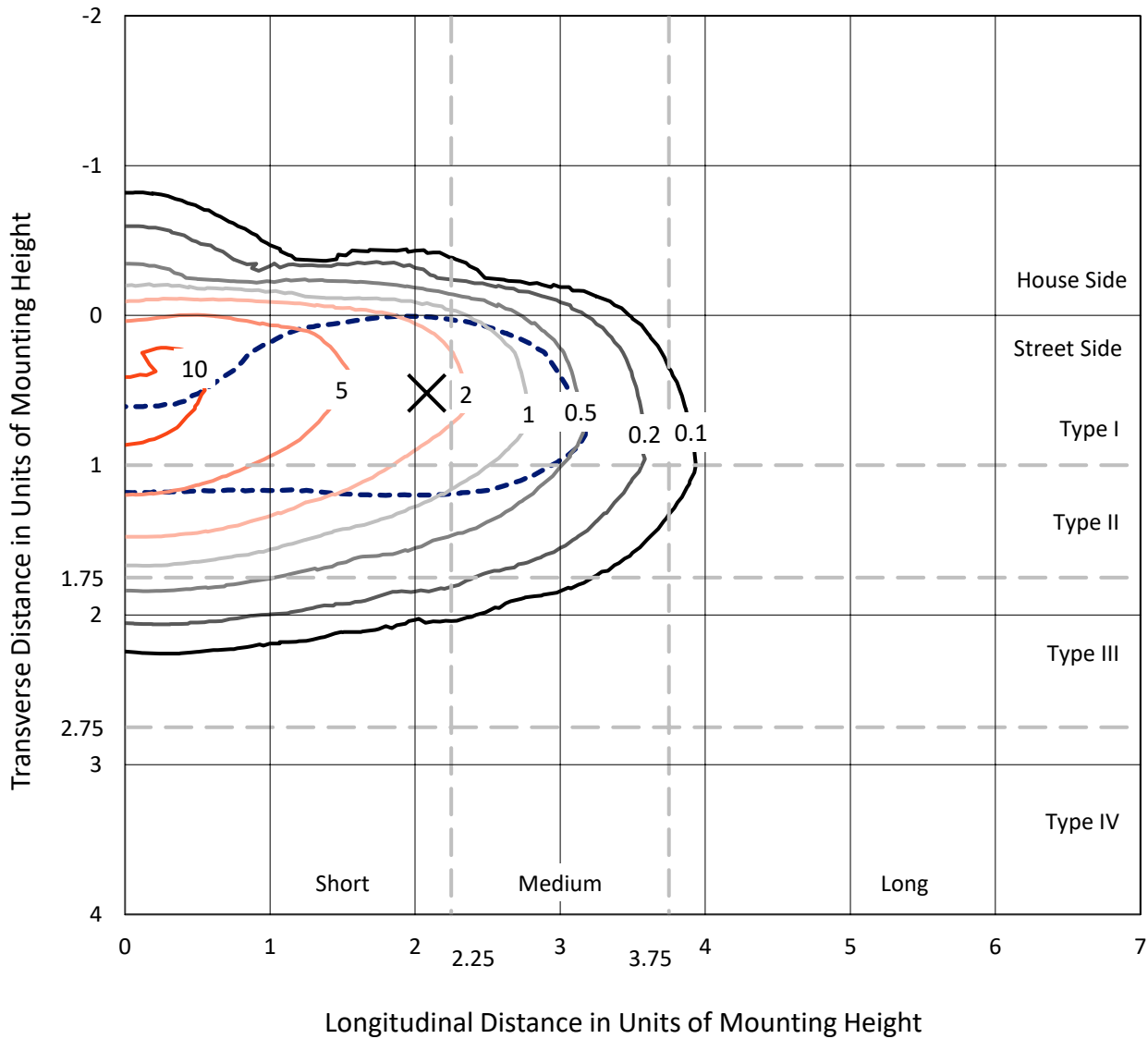
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

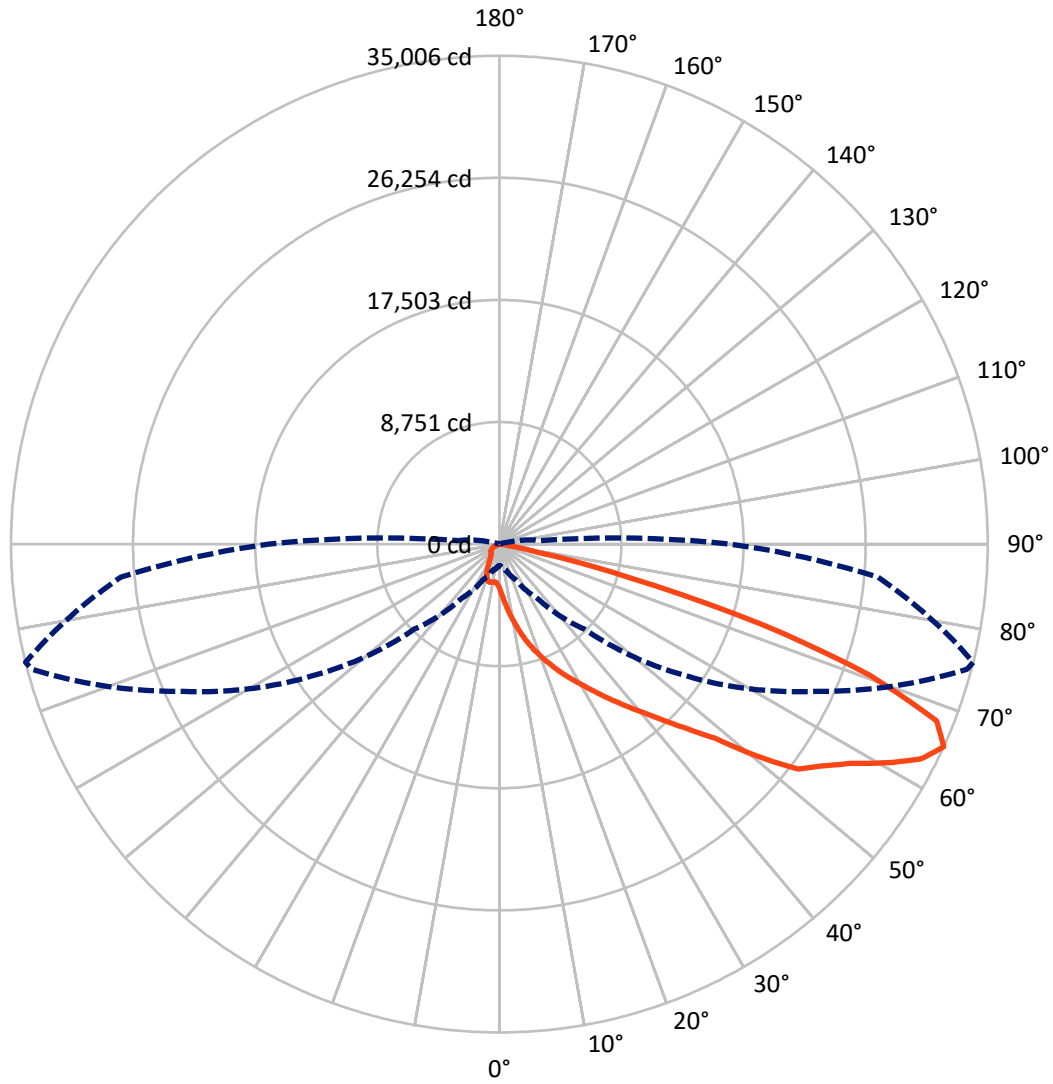
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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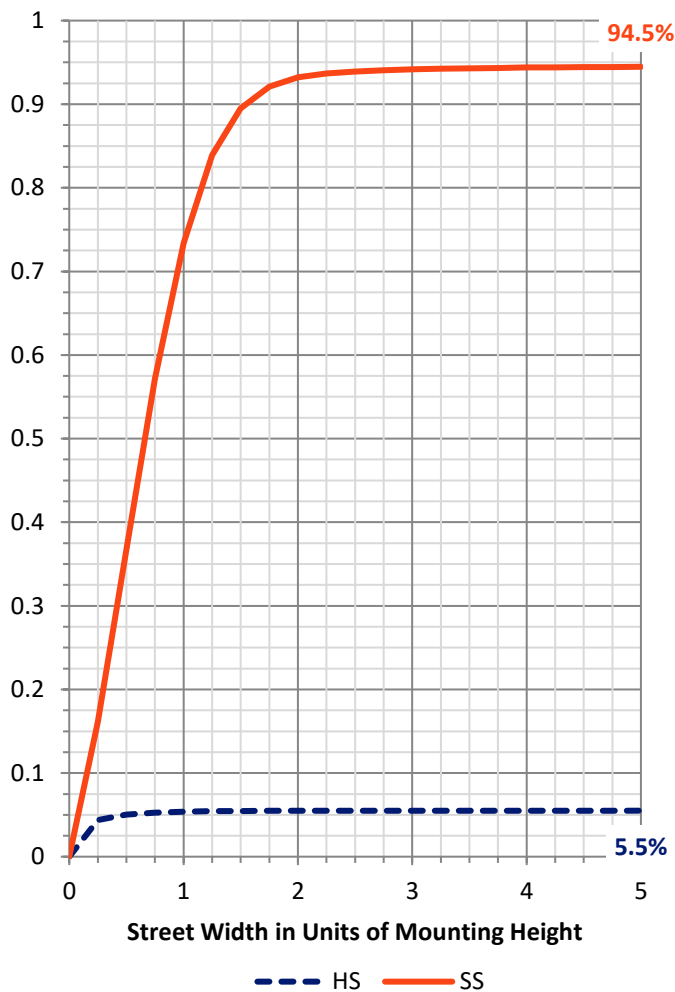
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1996.2	0.0	1996.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	34105.5	0.0	34105.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	36101.7	0.0	36101.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.8	1.1
10°-20°	1475.5	4.1
20°-30°	3010.2	8.3
30°-40°	5353.7	14.8
40°-50°	7914.1	21.9
50°-60°	9061.0	25.1
60°-70°	6913.1	19.1
70°-80°	1936.5	5.4
80°-90°	48.7	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°	36101.7	100.0
0°-180°	36101.7	100.0

Coefficient of Utilization



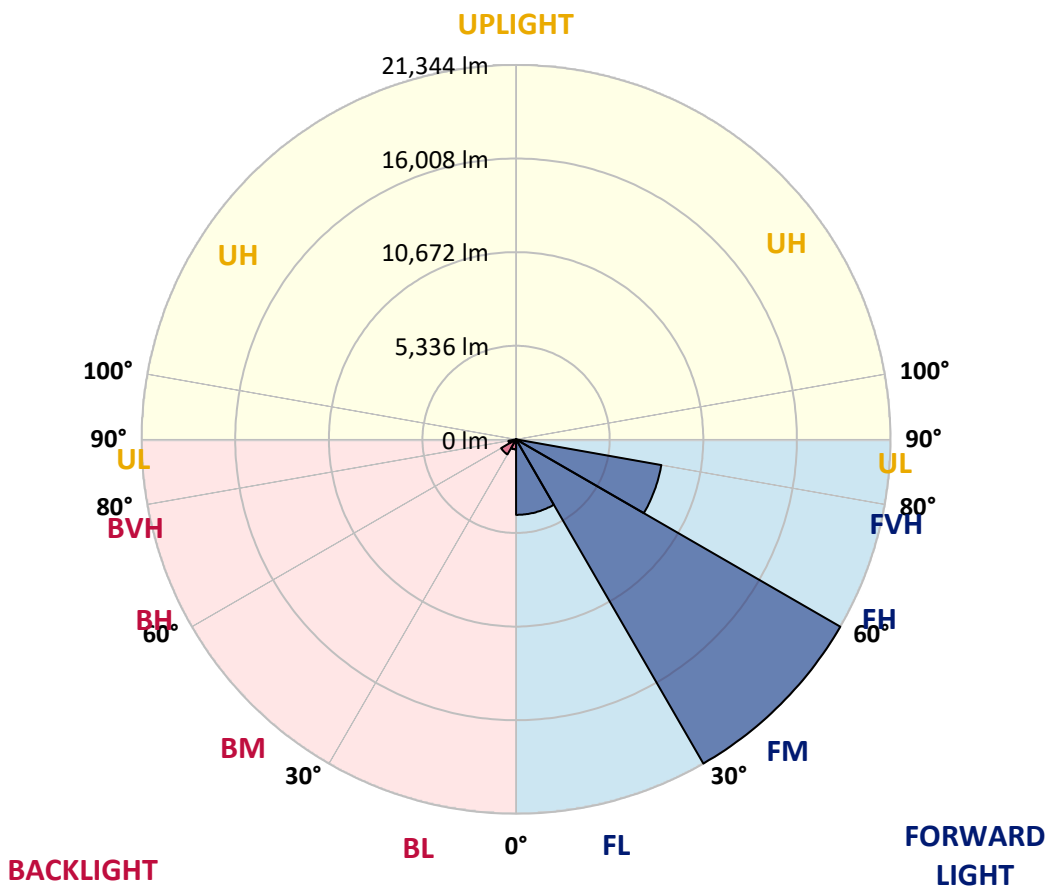
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4304.9	11.9			
FM (30°-60°)	21343.9	59.1			
FH (60°-80°)	8410.8	23.3			G4/12000
FVH (80°-90°)	45.9	0.1			G1/100
BL (0°-30°)	569.6	1.6	B2/1000		
BM (30°-60°)	984.9	2.7	B1/1000		
BH (60°-80°)	438.8	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	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°	75°	76°	85°
0°	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3
2.5°	4926.1	4999.9	4942.1	4845.8	4659.7	4480.0	4248.9	3931.2	3677.7	3645.6	3408.1
5°	6652.6	6646.2	6521.0	6395.8	6200.1	5892.0	5426.7	4836.2	4268.2	4220.0	3687.3
7.5°	7679.5	7689.1	7618.5	7522.3	7329.7	7012.0	6527.4	5815.0	4983.8	4887.5	4069.2
10°	8542.8	8539.6	8488.2	8443.3	8270.0	8058.2	7538.3	6755.3	5754.0	5603.2	4496.0
12.5°	9191.0	9213.5	9239.2	9284.1	9210.3	9001.7	8510.7	7657.0	6533.8	6367.0	4983.8
15°	9704.5	9710.9	9807.2	9980.5	10041.4	9932.3	9486.3	8529.9	7304.0	7159.6	5545.4
17.5°	9858.5	9871.4	10035.0	10352.7	10673.6	10734.6	10397.7	9409.2	8061.4	7907.4	6091.0
20°	10182.6	10211.5	10333.5	10612.7	11017.0	11344.4	11212.8	10298.2	8818.8	8616.6	6649.4
22.5°	11203.2	11219.2	11177.5	11212.8	11421.4	11800.1	11880.3	11158.2	9595.4	9380.4	7252.7
25°	12958.6	12965.0	12672.9	12397.0	12239.7	12310.3	12486.8	11950.9	10365.6	10153.8	7814.3
27.5°	14781.4	14803.8	14454.0	13985.5	13423.9	13103.0	13051.6	12676.2	11142.2	10907.9	8369.5
30°	16498.3	16498.3	16129.2	15558.0	14807.0	14181.3	13812.2	13407.8	11973.4	11716.6	8937.5
32.5°	18041.9	18029.0	17557.3	16937.9	16196.6	15509.8	14733.2	14171.6	12897.6	12612.0	9592.2
35°	19315.9	19283.8	18747.9	18154.2	17361.5	16851.3	15984.8	14993.2	13898.8	13613.2	10266.1
37.5°	20278.6	20243.3	19752.3	19123.3	18388.5	18057.9	17332.6	15978.4	14954.7	14694.7	11013.8
40°	20801.7	20731.1	20391.0	19922.4	19306.3	19017.4	18715.8	17201.1	16196.6	15872.5	11896.3
42.5°	20955.8	20872.3	20647.7	20429.5	20057.2	19829.4	20153.5	18581.0	17560.5	17281.3	12904.0
45°	20500.1	20451.9	20432.7	20589.9	20657.3	20721.5	21520.6	20108.6	19065.6	18853.8	14171.6
47.5°	19402.5	19389.7	19559.8	20214.5	20926.9	21604.0	23006.4	21992.3	21016.7	20788.9	15943.1
50°	17374.4	17505.9	17980.9	19129.8	20554.6	22104.7	24396.0	24604.6	24174.6	23840.8	18253.7
52.5°	14203.7	14457.2	15522.7	17268.5	19315.9	21963.4	25037.8	26697.0	27136.6	26790.0	19909.6
55°	11145.4	11382.9	12332.8	14547.1	17278.1	20888.4	25066.7	27419.0	28378.5	28057.6	21029.6
57.5°	8302.1	8520.3	9383.6	11501.6	14505.4	18773.6	24379.9	27820.2	29851.5	29646.2	22797.8
60°	5426.7	5641.7	6421.5	8273.2	11251.3	15692.8	22688.7	27736.7	31857.3	31838.0	24970.4
62.5°	3010.2	3180.3	3745.1	5189.2	7852.8	12153.1	20031.5	26899.1	33798.8	33920.8	26761.1
65°	1540.4	1649.5	1992.9	2852.9	4752.8	8616.6	16536.8	24980.1	34697.4	35005.5	27232.9
67.5°	1007.7	1043.0	1126.4	1482.6	2544.9	5420.3	12445.1	21902.5	33433.0	33792.4	25650.8
70°	818.3	847.2	895.4	988.4	1312.5	2878.6	8173.7	17493.1	27935.7	28179.6	20426.3
72.5°	600.1	638.6	731.7	792.7	946.7	1578.9	4252.1	11482.4	19184.3	19614.3	12836.6
75°	442.9	465.3	542.3	625.8	773.4	998.0	1627.0	6036.4	9906.7	9656.3	5391.4
77.5°	266.4	282.4	346.6	401.1	552.0	622.6	568.0	2230.4	3013.4	2833.7	1302.9
80°	131.6	147.6	227.8	301.7	353.0	250.3	237.5	622.6	670.7	670.7	327.3
82.5°	44.9	57.8	121.9	199.0	173.3	96.3	112.3	160.5	179.7	189.3	96.3
85°	0.0	0.0	28.9	57.8	25.7	12.8	28.9	35.3	44.9	48.1	32.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3	3196.3
2.5°	3279.8	3128.9	2901.1	2695.7	2538.4	2390.8	2278.5	2188.6	2172.6	2121.3	2127.7
5°	3427.4	3154.6	2734.2	2410.1	2182.2	2028.2	1899.8	1803.5	1761.8	1720.1	1688.0
7.5°	3655.2	3260.5	2670.0	2275.3	2008.9	1771.5	1572.5	1412.0	1335.0	1286.9	1254.8
10°	3934.4	3408.1	2673.2	2195.1	1800.3	1437.7	1164.9	988.4	905.0	879.3	876.1
12.5°	4268.2	3594.3	2698.9	2063.5	1498.7	1068.6	863.3	783.0	757.4	734.9	734.9
15°	4621.2	3802.8	2698.9	1822.8	1142.5	834.4	747.7	696.4	664.3	651.5	645.0
17.5°	4993.4	3998.6	2634.7	1492.3	876.1	734.9	664.3	616.2	590.5	571.2	564.8
20°	5391.4	4184.7	2474.3	1142.5	750.9	657.9	590.5	542.3	516.7	497.4	497.4
22.5°	5795.7	4358.0	2214.3	879.3	664.3	584.1	519.9	475.0	449.3	430.0	430.0
25°	6171.2	4473.6	1880.6	725.3	600.1	519.9	462.1	417.2	388.3	375.5	369.1
27.5°	6521.0	4547.4	1511.5	638.6	539.1	465.3	404.4	362.6	340.2	330.5	324.1
30°	6883.6	4566.6	1155.3	580.9	487.8	410.8	353.0	320.9	301.7	288.8	288.8
32.5°	7236.6	4544.2	882.5	532.7	442.9	362.6	314.5	285.6	269.6	259.9	256.7
35°	7596.1	4441.5	715.6	491.0	397.9	317.7	279.2	256.7	247.1	234.3	234.3
37.5°	7987.6	4303.5	622.6	449.3	353.0	285.6	250.3	234.3	221.4	211.8	208.6
40°	8475.4	4143.0	571.2	414.0	311.3	256.7	224.6	208.6	199.0	189.3	186.1
42.5°	9053.0	3985.8	545.6	375.5	279.2	227.8	202.2	182.9	173.3	160.5	157.2
45°	9871.4	3950.5	516.7	333.8	250.3	205.4	176.5	157.2	144.4	134.8	131.6
47.5°	11187.1	4050.0	468.5	288.8	221.4	179.7	150.8	134.8	118.7	109.1	102.7
50°	12493.2	4024.3	420.4	250.3	195.8	154.0	128.4	112.3	96.3	86.6	83.4
52.5°	13205.7	3902.3	375.5	221.4	170.1	131.6	109.1	89.9	80.2	70.6	67.4
55°	13850.7	3854.2	330.5	192.5	144.4	115.5	89.9	73.8	67.4	57.8	54.6
57.5°	15115.1	3966.5	292.0	166.9	125.2	99.5	77.0	61.0	54.6	44.9	41.7
60°	16437.3	3979.4	250.3	144.4	109.1	83.4	61.0	48.1	41.7	32.1	28.9
62.5°	17127.3	3655.2	205.4	121.9	89.9	70.6	51.3	38.5	32.1	19.3	19.3
65°	16549.6	2955.6	173.3	99.5	70.6	54.6	38.5	28.9	19.3	9.6	3.2
67.5°	14646.6	2102.0	144.4	80.2	51.3	38.5	28.9	19.3	3.2	0.0	0.0
70°	10725.0	1200.2	112.3	57.8	38.5	25.7	19.3	9.6	0.0	0.0	0.0
72.5°	6591.6	641.8	83.4	38.5	28.9	19.3	16.0	6.4	0.0	0.0	0.0
75°	2499.9	308.1	51.3	25.7	22.5	16.0	9.6	3.2	0.0	0.0	0.0
77.5°	677.1	150.8	28.9	19.3	16.0	9.6	6.4	0.0	0.0	0.0	0.0
80°	176.5	70.6	19.3	12.8	9.6	6.4	0.0	0.0	0.0	0.0	0.0
82.5°	61.0	32.1	9.6	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0
85°	25.7	12.8	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	3.2	3.2	3.2	3.2	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)