

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: P640965

Luminaire Tested: GWS-SA5E-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640965
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-SA5E-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22338.3 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

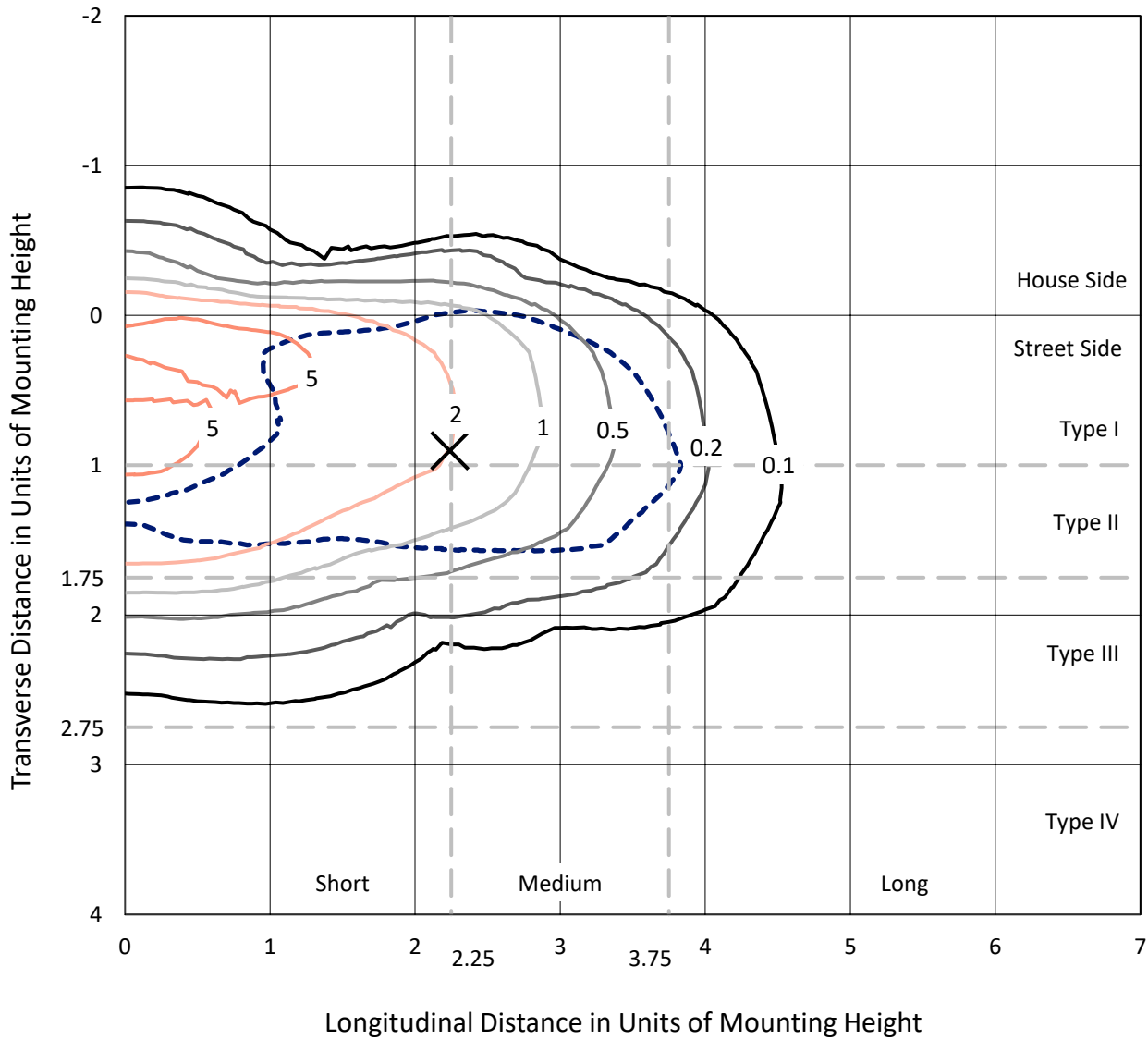
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

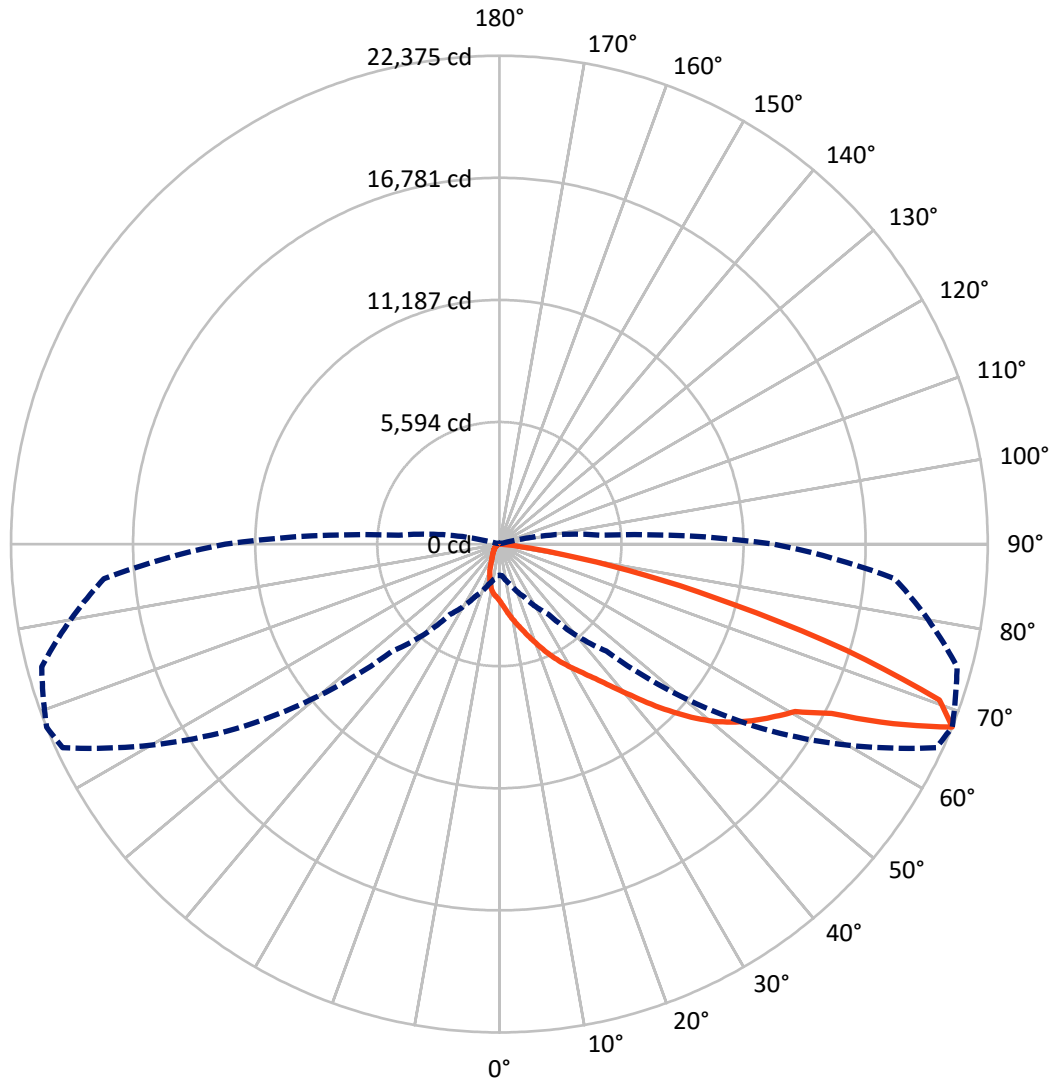
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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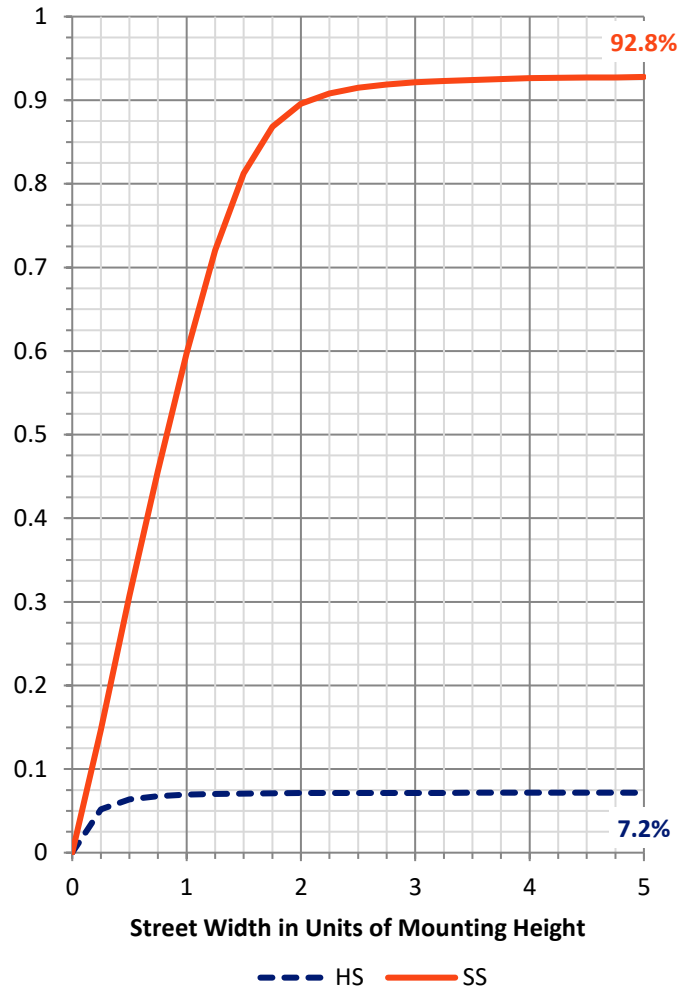
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.1	0.0	1613.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20725.2	0.0	20725.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	22338.3	0.0	22338.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.1
10°-20°	728.1	3.3
20°-30°	1251.2	5.6
30°-40°	2175.4	9.7
40°-50°	3795.9	17.0
50°-60°	5725.2	25.6
60°-70°	5740.8	25.7
70°-80°	2532.9	11.3
80°-90°	135.3	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°	22338.3	100.0
0°-180°	22338.3	100.0

Coefficient of Utilization



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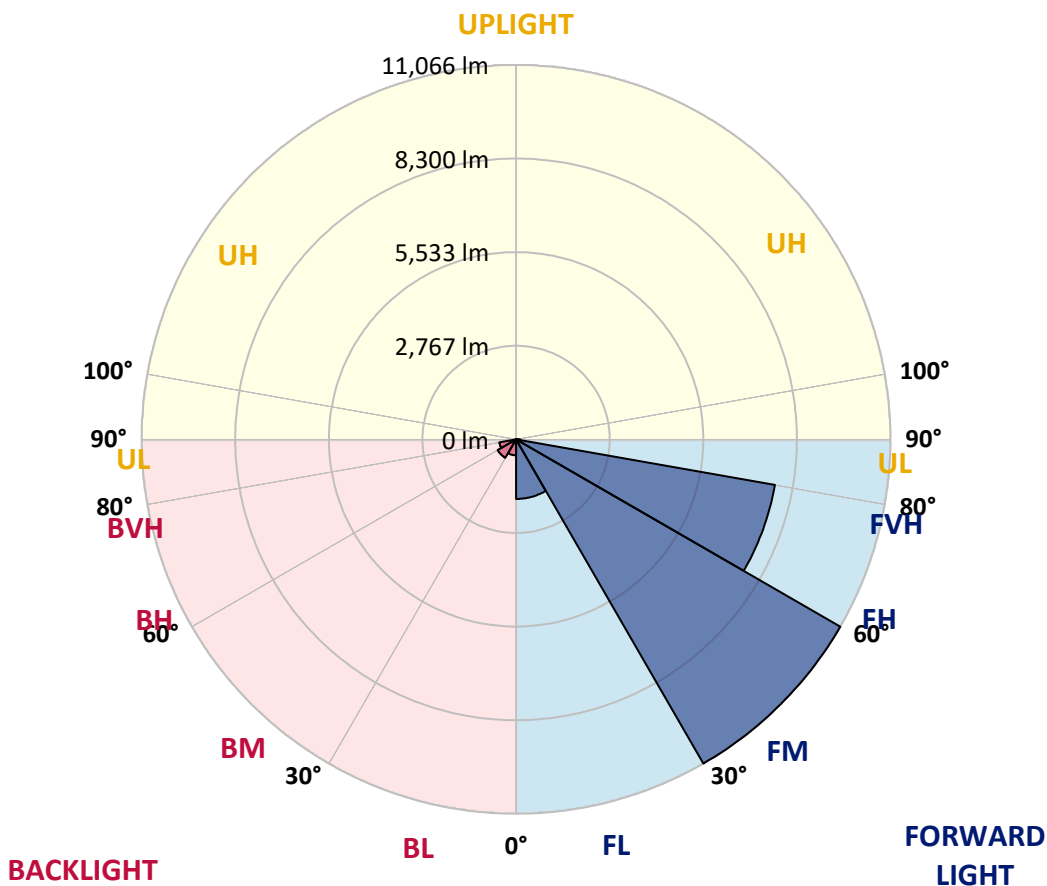
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.9	7.9			
FM (30°-60°)	11066.3	49.5			
FH (60°-80°)	7770.3	34.8			G4/12000
FVH (80°-90°)	127.7	0.6			G2/225
BL (0°-30°)	471.9	2.1	B1/500		
BM (30°-60°)	630.1	2.8	B1/1000		
BH (60°-80°)	503.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	3027.2	3046.4	3027.2	3031.5	2975.9	2950.2	2894.6	2817.7	2798.4	2749.3	2674.4
5°	3397.0	3414.1	3394.9	3390.6	3326.5	3279.4	3187.5	3055.0	3016.5	2920.3	2772.8
7.5°	3598.0	3608.7	3615.1	3625.8	3602.3	3563.8	3480.4	3315.8	3275.2	3119.1	2911.7
10°	3619.4	3627.9	3660.0	3724.1	3771.1	3794.7	3747.6	3595.8	3531.7	3379.9	3082.8
12.5°	3559.5	3572.3	3623.6	3730.5	3860.9	3980.7	4010.6	3878.0	3820.3	3625.8	3283.7
15°	3480.4	3491.1	3561.6	3707.0	3903.7	4123.9	4247.9	4190.2	4126.0	3922.9	3506.1
17.5°	3358.5	3373.5	3471.8	3668.5	3922.9	4237.2	4504.4	4523.7	4478.8	4258.6	3751.9
20°	3290.1	3300.8	3388.5	3591.6	3910.1	4320.6	4743.9	4925.6	4876.4	4645.5	4034.1
22.5°	3347.9	3356.4	3414.1	3572.3	3867.3	4367.6	4966.2	5327.5	5299.7	5060.3	4331.3
25°	3651.4	3679.2	3645.0	3672.8	3886.6	4393.3	5145.8	5729.4	5735.8	5494.2	4639.1
27.5°	4267.1	4230.8	4149.5	4010.6	4036.2	4461.7	5299.7	6107.8	6163.4	5917.5	4912.8
30°	4893.5	4872.1	4823.0	4607.0	4427.5	4613.5	5430.1	6494.7	6582.4	6334.4	5156.5
32.5°	5596.9	5618.2	5530.6	5271.9	4966.2	4921.3	5564.8	6862.5	7027.1	6806.9	5442.9
35°	6437.0	6443.4	6270.3	5983.8	5637.5	5430.1	5806.4	7268.6	7572.2	7409.7	5825.6
37.5°	7255.8	7294.3	7200.2	6749.2	6441.3	6062.9	6206.1	7790.3	8217.8	8153.7	6306.6
40°	7980.5	8040.4	8010.5	7574.4	7170.3	6851.8	6826.1	8401.7	8998.2	9070.8	6941.6
42.5°	8557.8	8596.2	8619.8	8309.8	7952.8	7773.2	7591.5	9111.5	9919.6	10216.7	7719.7
45°	9167.0	9179.9	9229.0	9019.5	8707.4	8722.4	8495.8	9973.0	10890.1	11486.6	8613.3
47.5°	9943.1	9985.8	9962.3	9742.1	9459.9	9628.8	9430.0	10860.2	11847.9	12842.0	9528.3
50°	10888.0	10932.9	10911.5	10655.0	10340.7	10411.3	10287.3	11721.8	12771.4	14120.4	10289.4
52.5°	11375.4	11411.8	11676.9	11792.3	11627.7	11178.8	11018.4	12668.8	13551.8	15172.2	10988.5
55°	11140.3	11165.9	11743.1	12230.6	12833.4	12384.5	11753.8	13400.0	14240.1	15993.2	11508.0
57.5°	10165.4	10304.4	11089.0	11914.2	13181.9	13575.3	12946.7	14195.2	14902.9	16564.0	12018.9
60°	8166.5	8160.1	9284.6	10766.1	12502.1	13902.4	14631.4	15270.6	15567.7	17002.2	12703.0
62.5°	4513.0	4553.6	6050.1	8001.9	10612.2	13055.8	15894.8	17128.4	17083.5	17767.6	13774.1
65°	2246.9	2328.1	3140.5	4583.5	7061.3	10789.7	16112.9	19963.1	19834.9	19569.8	15986.7
67.5°	1425.9	1458.0	1907.0	2663.7	3925.1	6935.1	14755.4	22077.4	22374.6	21707.6	18182.3
70°	923.5	977.0	1325.5	1821.4	2368.7	3574.5	10808.9	20707.1	21389.1	21472.4	16814.1
72.5°	502.4	540.9	846.6	1299.8	1710.3	1787.2	6071.5	15539.9	16636.6	18214.4	13154.1
75°	286.5	314.3	463.9	882.9	1254.9	1088.2	2691.5	10402.7	11101.8	13017.3	9425.7
77.5°	173.2	196.7	260.8	429.7	786.7	726.9	1017.6	6332.3	6776.9	7766.8	4947.0
80°	79.1	94.1	164.6	237.3	429.7	344.2	389.1	2952.4	3048.6	3187.5	1637.6
82.5°	36.3	42.8	74.8	141.1	243.7	198.8	149.6	682.0	959.9	908.6	416.9
85°	4.3	4.3	27.8	57.7	68.4	51.3	62.0	153.9	194.5	273.6	119.7
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	12.8	19.2	27.8	44.9	29.9
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°	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6	2599.6
2.5°	2640.2	2580.4	2526.9	2447.8	2394.4	2334.5	2293.9	2244.7	2225.5	2210.5	2189.1
5°	2700.1	2603.9	2473.5	2328.1	2208.4	2095.1	1990.3	1921.9	1862.1	1853.5	1823.6
7.5°	2798.4	2655.2	2435.0	2197.7	1994.6	1806.5	1659.0	1539.2	1479.4	1460.1	1425.9
10°	2928.8	2732.2	2377.3	2013.8	1721.0	1496.5	1329.7	1195.1	1101.0	1066.8	1041.1
12.5°	3074.2	2802.7	2285.3	1787.2	1453.7	1197.2	985.5	842.3	782.4	761.1	741.8
15°	3241.0	2869.0	2140.0	1560.6	1192.9	880.8	731.1	669.1	643.5	637.1	630.7
17.5°	3401.3	2911.7	1966.8	1325.5	917.1	684.1	613.6	590.0	583.6	577.2	572.9
20°	3583.0	2941.7	1763.7	1103.1	711.9	579.4	545.1	528.0	515.2	502.4	500.3
22.5°	3769.0	2941.7	1543.5	885.1	596.5	519.5	481.0	448.9	425.4	412.6	408.3
25°	3946.4	2901.0	1325.5	707.6	525.9	461.8	412.6	376.3	344.2	329.2	325.0
27.5°	4072.6	2796.3	1135.2	598.6	476.7	410.5	350.6	310.0	284.3	269.4	267.2
30°	4151.7	2640.2	959.9	534.5	434.0	357.0	297.2	263.0	243.7	233.0	228.7
32.5°	4211.5	2447.8	803.8	489.6	393.4	310.0	258.7	230.9	213.8	205.2	203.1
35°	4331.3	2266.1	688.4	448.9	350.6	271.5	226.6	205.2	192.4	181.7	179.6
37.5°	4498.0	2114.3	596.5	412.6	310.0	241.6	205.2	186.0	175.3	164.6	162.5
40°	4743.9	2018.1	528.0	376.3	273.6	218.1	188.1	171.0	156.1	145.4	143.2
42.5°	5122.3	1973.2	483.2	339.9	241.6	196.7	173.2	151.8	136.8	126.1	124.0
45°	5573.3	1996.7	444.7	303.6	220.2	181.7	153.9	132.5	117.6	106.9	104.8
47.5°	6056.5	2080.1	412.6	269.4	198.8	166.8	136.8	113.3	100.5	89.8	87.7
50°	6561.0	2216.9	384.8	237.3	181.7	149.6	117.6	98.3	85.5	77.0	74.8
52.5°	6999.3	2402.9	357.0	213.8	166.8	132.5	102.6	85.5	72.7	64.1	62.0
55°	7418.3	2578.2	335.6	192.4	149.6	115.4	89.8	72.7	62.0	53.4	51.3
57.5°	7873.7	2764.2	310.0	173.2	134.7	102.6	79.1	62.0	53.4	44.9	42.8
60°	8536.4	3040.0	271.5	158.2	117.6	89.8	68.4	55.6	47.0	36.3	34.2
62.5°	9492.0	3542.4	228.7	136.8	100.5	77.0	57.7	47.0	38.5	29.9	25.7
65°	11279.2	4397.5	188.1	113.3	81.2	64.1	49.2	38.5	29.9	21.4	19.2
67.5°	12566.2	4619.9	151.8	91.9	66.3	49.2	40.6	29.9	21.4	15.0	12.8
70°	10986.3	3317.9	117.6	74.8	55.6	38.5	32.1	23.5	15.0	10.7	8.6
72.5°	8277.7	2167.8	87.7	57.7	42.8	32.1	23.5	19.2	12.8	8.6	6.4
75°	5834.2	1252.8	64.1	42.8	29.9	23.5	19.2	15.0	10.7	6.4	6.4
77.5°	2990.8	517.4	44.9	29.9	21.4	15.0	12.8	8.6	8.6	6.4	4.3
80°	908.6	171.0	25.7	19.2	15.0	10.7	6.4	6.4	6.4	4.3	2.1
82.5°	207.4	55.6	15.0	15.0	10.7	8.6	6.4	2.1	2.1	0.0	0.0
85°	53.4	17.1	12.8	10.7	10.7	8.6	4.3	2.1	0.0	0.0	0.0
87.5°	19.2	10.7	10.7	10.7	8.6	6.4	4.3	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)