

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: P638329

Luminaire Tested: GWS-SA4E-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638329
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-SA4E-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25246 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

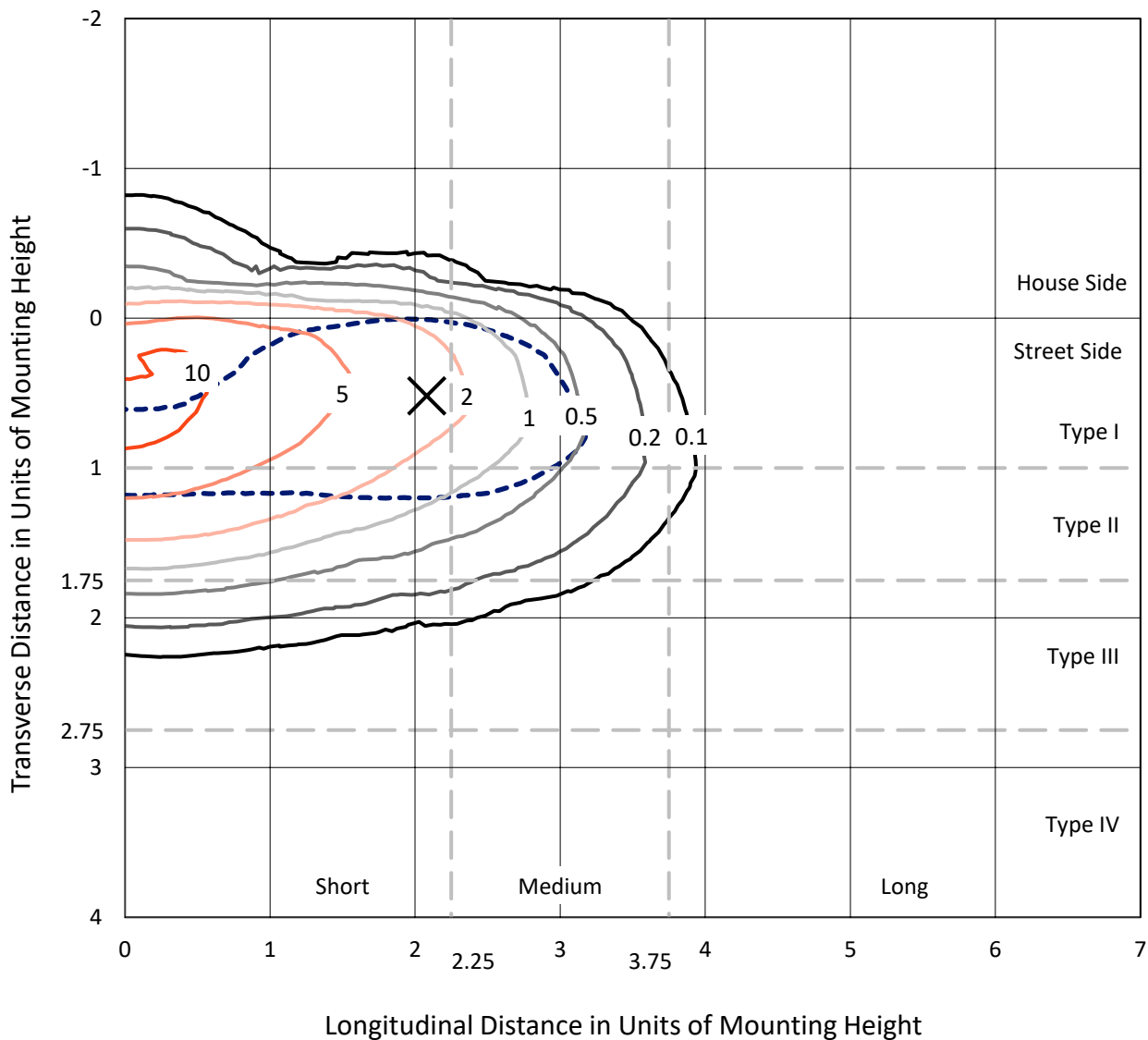
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

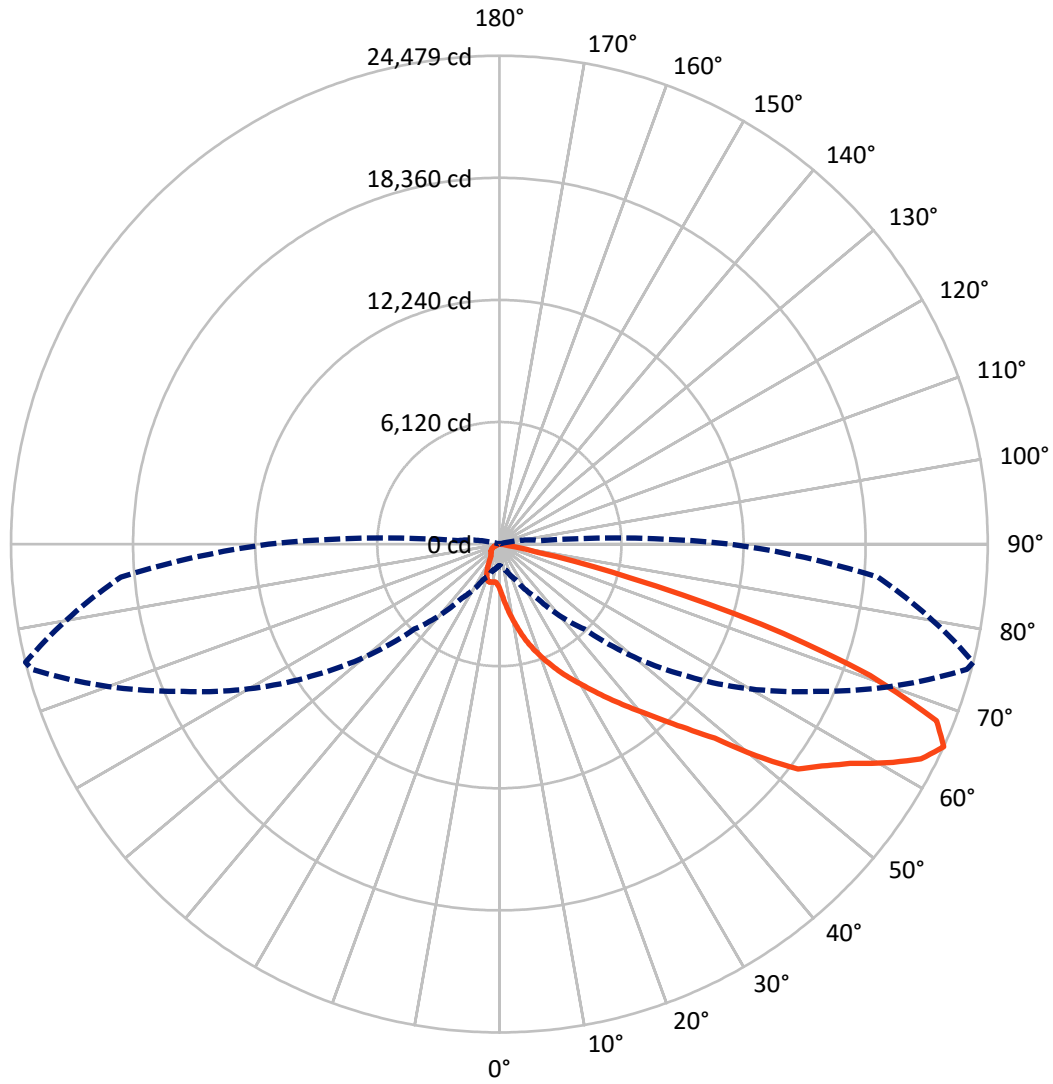
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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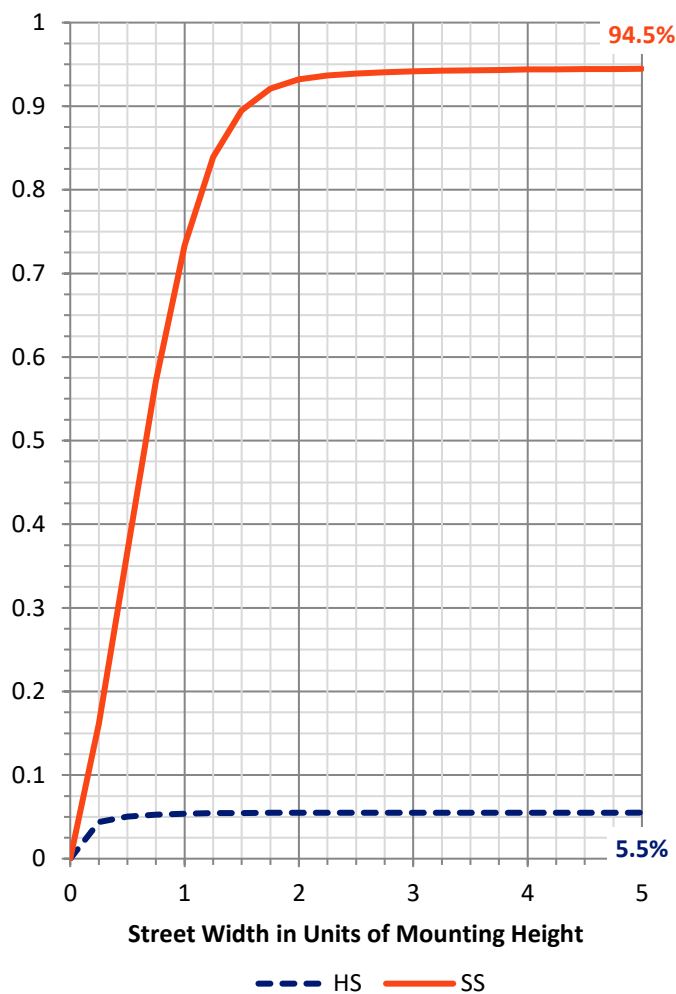
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1395.9	0.0	1395.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	23850.0	0.0	23850.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	25246.0	0.0	25246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.1
10°-20°	1031.8	4.1
20°-30°	2105.0	8.3
30°-40°	3743.9	14.8
40°-50°	5534.3	21.9
50°-60°	6336.4	25.1
60°-70°	4834.4	19.1
70°-80°	1354.2	5.4
80°-90°	34.1	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°	25246.0	100.0
0°-180°	25246.0	100.0

Coefficient of Utilization



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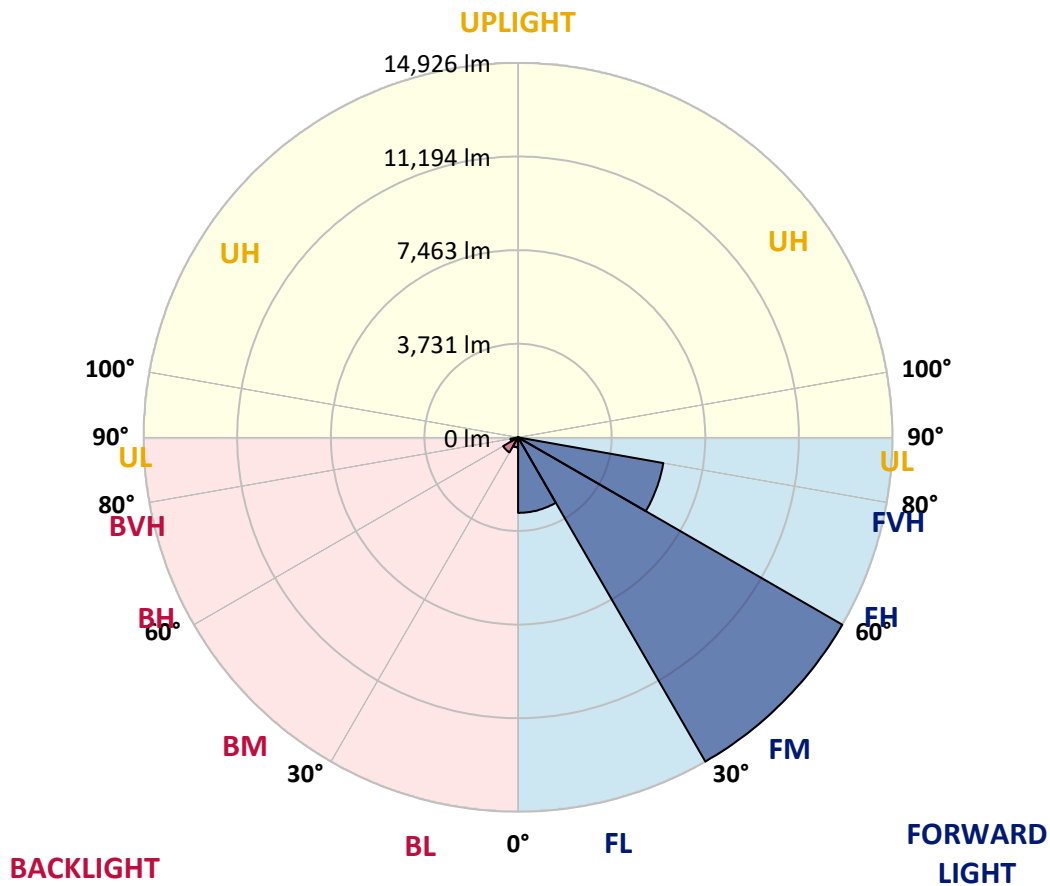
CATALOG NUMBER: GWS-SA4E-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3010.4	11.9			
FM (30°-60°)	14925.8	59.1			
FH (60°-80°)	5881.7	23.3			G3/7500
FVH (80°-90°)	32.1	0.1			G1/100
BL (0°-30°)	398.3	1.6	B1/500		
BM (30°-60°)	688.7	2.7	B1/1000		
BH (60°-80°)	306.9	1.2	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	3444.8	3496.4	3456.0	3388.7	3258.5	3132.9	2971.3	2749.1	2571.8	2549.4	2383.3
5°	4652.2	4647.7	4560.2	4472.6	4335.7	4120.3	3794.9	3382.0	2984.7	2951.1	2578.5
7.5°	5370.3	5377.0	5327.7	5260.3	5125.7	4903.5	4564.6	4066.4	3485.2	3417.9	2845.6
10°	5974.0	5971.7	5935.8	5904.4	5783.2	5635.1	5271.6	4724.0	4023.8	3918.3	3144.1
12.5°	6427.3	6443.0	6461.0	6492.4	6440.8	6294.9	5951.5	5354.6	4569.1	4452.4	3485.2
15°	6786.4	6790.9	6858.2	6979.4	7022.0	6945.7	6633.8	5965.0	5107.7	5006.7	3877.9
17.5°	6894.1	6903.1	7017.5	7239.7	7464.1	7506.7	7271.1	6579.9	5637.4	5529.6	4259.4
20°	7120.7	7140.9	7226.2	7421.5	7704.2	7933.1	7841.1	7201.5	6167.0	6025.6	4649.9
22.5°	7834.4	7845.6	7816.4	7841.1	7987.0	8251.8	8307.9	7803.0	6710.1	6559.7	5071.8
25°	9062.0	9066.4	8862.2	8669.2	8559.3	8608.6	8732.1	8357.3	7248.7	7100.5	5464.6
27.5°	10336.6	10352.3	10107.7	9780.1	9387.4	9162.9	9127.0	8864.5	7791.8	7627.9	5852.8
30°	11537.3	11537.3	11279.2	10879.7	10354.6	9917.0	9658.9	9376.1	8373.0	8193.5	6250.0
32.5°	12616.7	12607.7	12277.8	11844.7	11326.3	10846.1	10303.0	9910.2	9019.3	8819.6	6707.8
35°	13507.7	13485.2	13110.4	12695.3	12141.0	11784.1	11178.2	10484.8	9719.5	9519.8	7179.1
37.5°	14180.9	14156.2	13812.9	13373.0	12859.1	12627.9	12120.8	11173.7	10457.8	10276.0	7702.0
40°	14546.7	14497.3	14259.4	13931.8	13500.9	13298.9	13088.0	12028.7	11326.3	11099.7	8319.1
42.5°	14654.4	14596.1	14439.0	14286.4	14026.1	13866.7	14093.4	12993.7	12280.1	12084.8	9023.8
45°	14335.7	14302.1	14288.6	14398.6	14445.7	14490.6	15049.4	14062.0	13332.6	13184.5	9910.2
47.5°	13568.2	13559.3	13678.2	14136.0	14634.2	15107.7	16088.4	15379.3	14697.1	14537.7	11149.0
50°	12149.9	12241.9	12574.1	13377.5	14373.9	15457.8	17060.2	17206.0	16905.3	16671.9	12764.8
52.5°	9932.7	10110.0	10855.0	12075.9	13507.7	15359.1	17509.0	18669.2	18976.7	18734.3	13922.8
55°	7794.0	7960.1	8624.3	10172.8	12082.6	14607.3	17529.2	19174.2	19845.2	19620.8	14706.0
57.5°	5805.7	5958.3	6561.9	8043.1	10143.6	13128.4	17048.9	19454.7	20875.3	20731.6	15942.6
60°	3794.9	3945.2	4490.6	5785.5	7868.1	10974.0	15866.3	19396.3	22277.9	22264.4	17461.9
62.5°	2105.0	2224.0	2618.9	3628.8	5491.5	8498.7	14008.1	18810.6	23635.6	23720.9	18714.1
65°	1077.2	1153.5	1393.6	1995.1	3323.6	6025.6	11564.2	17468.6	24263.9	24479.4	19044.0
67.5°	704.7	729.4	787.7	1036.8	1779.6	3790.4	8702.9	15316.5	23379.7	23631.1	17937.6
70°	572.3	592.5	626.1	691.2	917.9	2013.0	5715.9	12233.0	19535.5	19706.0	14284.1
72.5°	419.7	446.6	511.7	554.3	662.0	1104.1	2973.5	8029.6	13415.6	13716.4	8976.7
75°	309.7	325.4	379.3	437.6	540.8	697.9	1137.8	4221.3	6927.7	6752.7	3770.2
77.5°	186.3	197.5	242.4	280.5	386.0	435.4	397.2	1559.7	2107.3	1981.6	911.1
80°	92.0	103.2	159.3	211.0	246.9	175.0	166.1	435.4	469.0	469.0	228.9
82.5°	31.4	40.4	85.3	139.1	121.2	67.3	78.5	112.2	125.7	132.4	67.3
85°	0.0	0.0	20.2	40.4	18.0	9.0	20.2	24.7	31.4	33.7	22.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	9.0	9.0
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°	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2	2235.2
2.5°	2293.5	2188.1	2028.7	1885.1	1775.1	1671.9	1593.4	1530.5	1519.3	1483.4	1487.9
5°	2396.8	2206.0	1912.0	1685.4	1526.0	1418.3	1328.5	1261.2	1232.0	1202.9	1180.4
7.5°	2556.1	2280.1	1867.1	1591.1	1404.8	1238.8	1099.6	987.4	933.6	899.9	877.5
10°	2751.4	2383.3	1869.4	1535.0	1259.0	1005.4	814.6	691.2	632.9	614.9	612.7
12.5°	2984.7	2513.5	1887.3	1443.0	1048.0	747.3	603.7	547.6	529.6	513.9	513.9
15°	3231.6	2659.3	1887.3	1274.7	798.9	583.5	522.9	487.0	464.5	455.6	451.1
17.5°	3491.9	2796.2	1842.5	1043.5	612.7	513.9	464.5	430.9	412.9	399.5	395.0
20°	3770.2	2926.4	1730.3	798.9	525.1	460.1	412.9	379.3	361.3	347.8	347.8
22.5°	4053.0	3047.6	1548.5	614.9	464.5	408.4	363.6	332.1	314.2	300.7	300.7
25°	4315.5	3128.4	1315.1	507.2	419.7	363.6	323.2	291.7	271.5	262.6	258.1
27.5°	4560.2	3180.0	1057.0	446.6	377.0	325.4	282.8	253.6	237.9	231.1	226.7
30°	4813.7	3193.5	807.9	406.2	341.1	287.3	246.9	224.4	211.0	202.0	202.0
32.5°	5060.6	3177.7	617.1	372.5	309.7	253.6	219.9	199.7	188.5	181.8	179.5
35°	5311.9	3105.9	500.4	343.4	278.3	222.2	195.2	179.5	172.8	163.8	163.8
37.5°	5585.7	3009.4	435.4	314.2	246.9	199.7	175.0	163.8	154.8	148.1	145.9
40°	5926.8	2897.2	399.5	289.5	217.7	179.5	157.1	145.9	139.1	132.4	130.2
42.5°	6330.8	2787.3	381.5	262.6	195.2	159.3	141.4	127.9	121.2	112.2	110.0
45°	6903.1	2762.6	361.3	233.4	175.0	143.6	123.4	110.0	101.0	94.3	92.0
47.5°	7823.2	2832.1	327.6	202.0	154.8	125.7	105.5	94.3	83.0	76.3	71.8
50°	8736.5	2814.2	294.0	175.0	136.9	107.7	89.8	78.5	67.3	60.6	58.3
52.5°	9234.8	2728.9	262.6	154.8	118.9	92.0	76.3	62.8	56.1	49.4	47.1
55°	9685.8	2695.2	231.1	134.7	101.0	80.8	62.8	51.6	47.1	40.4	38.2
57.5°	10570.0	2773.8	204.2	116.7	87.5	69.6	53.9	42.6	38.2	31.4	29.2
60°	11494.6	2782.8	175.0	101.0	76.3	58.3	42.6	33.7	29.2	22.4	20.2
62.5°	11977.1	2556.1	143.6	85.3	62.8	49.4	35.9	26.9	22.4	13.5	13.5
65°	11573.2	2066.9	121.2	69.6	49.4	38.2	26.9	20.2	13.5	6.7	2.2
67.5°	10242.4	1469.9	101.0	56.1	35.9	26.9	20.2	13.5	2.2	0.0	0.0
70°	7500.0	839.3	78.5	40.4	26.9	18.0	13.5	6.7	0.0	0.0	0.0
72.5°	4609.5	448.8	58.3	26.9	20.2	13.5	11.2	4.5	0.0	0.0	0.0
75°	1748.2	215.4	35.9	18.0	15.7	11.2	6.7	2.2	0.0	0.0	0.0
77.5°	473.5	105.5	20.2	13.5	11.2	6.7	4.5	0.0	0.0	0.0	0.0
80°	123.4	49.4	13.5	9.0	6.7	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	42.6	22.4	6.7	6.7	4.5	2.2	0.0	0.0	0.0	0.0	0.0
85°	18.0	9.0	4.5	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.2	2.2	2.2	2.2	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)