

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: P640730

Luminaire Tested: GWS-SA5E-740-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30404.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

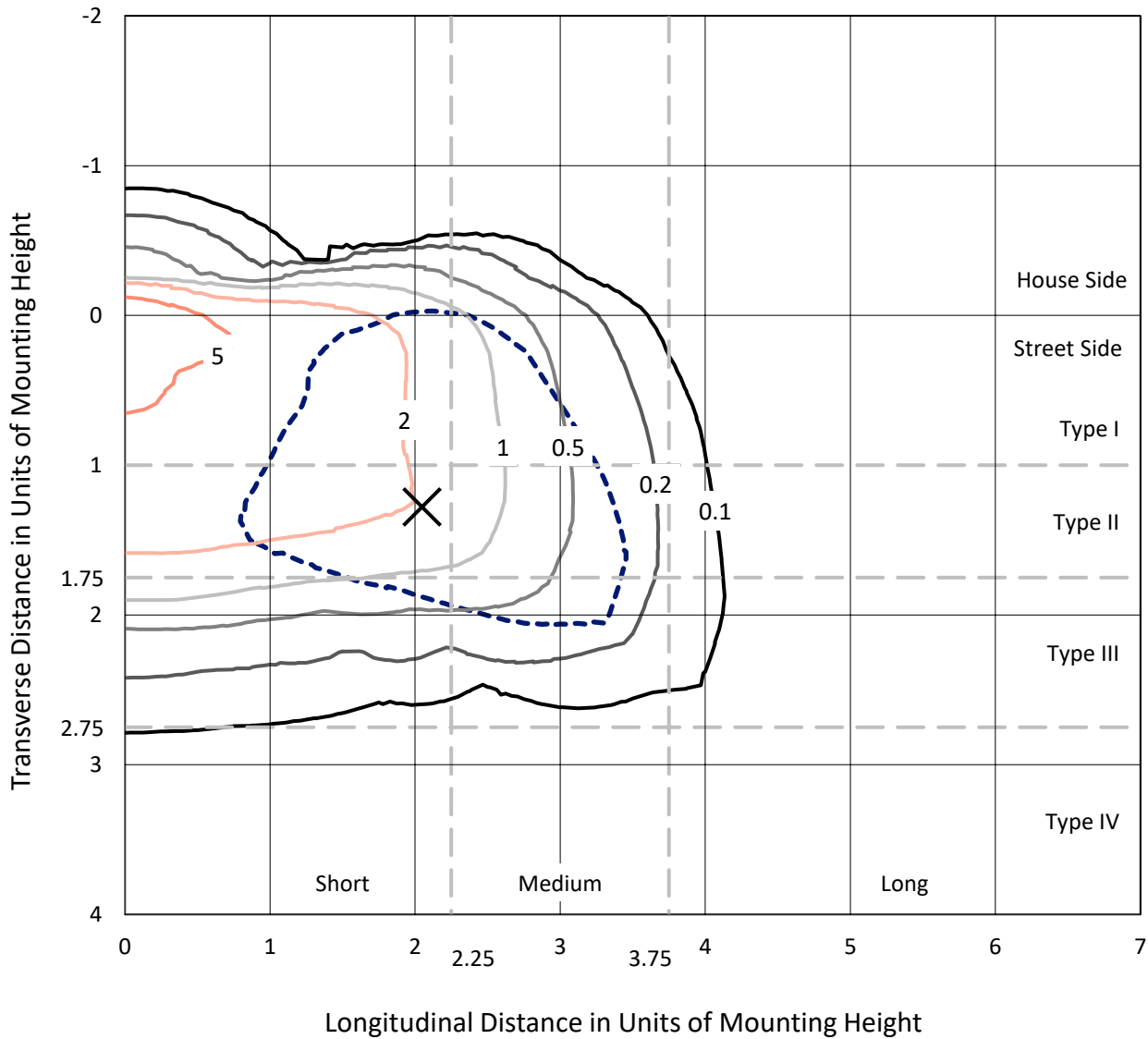
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

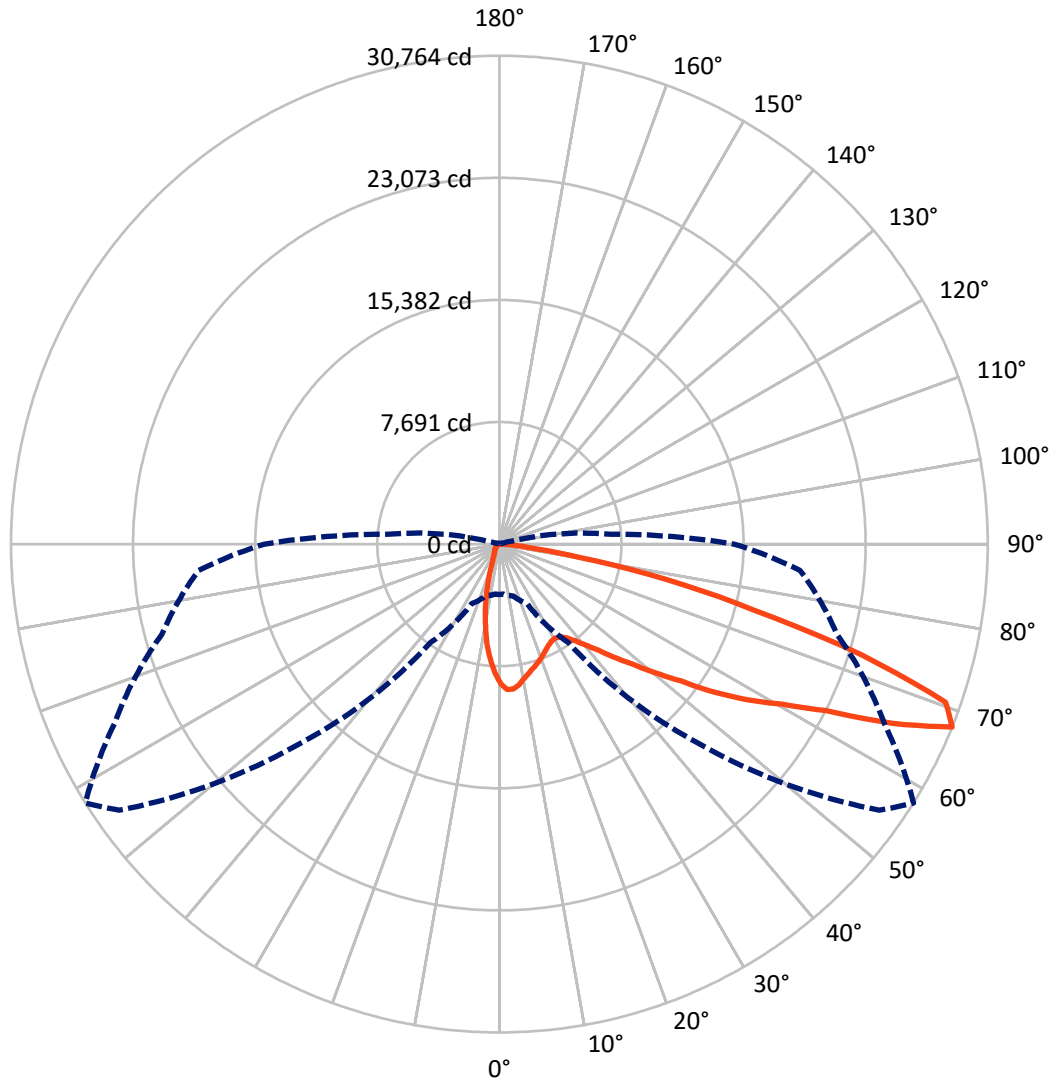
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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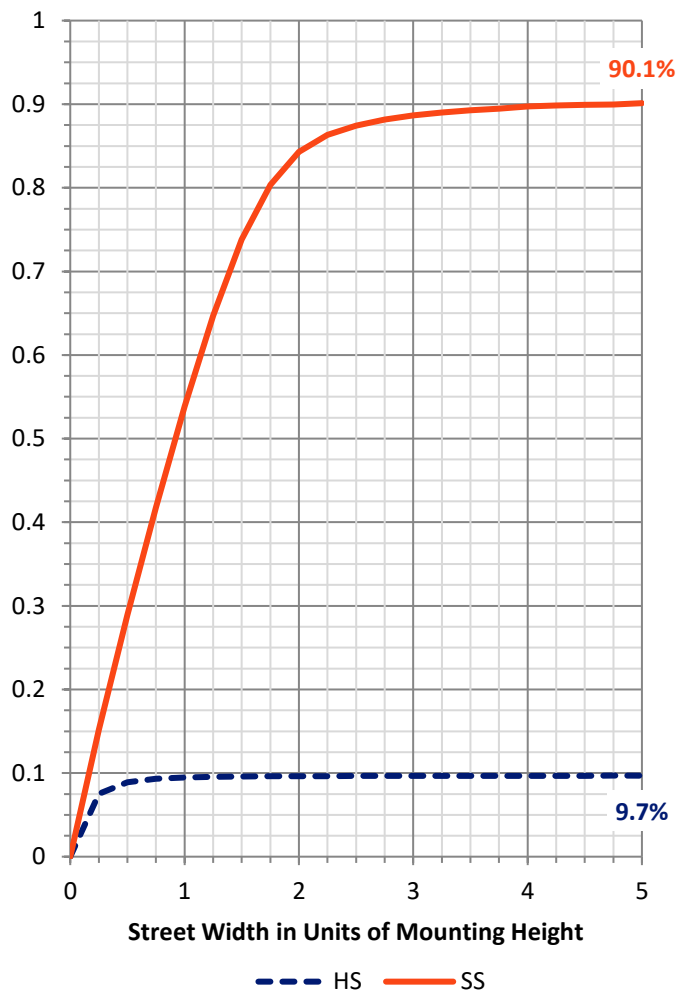
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2970.4	0.0	2970.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	27434.5	0.0	27434.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	30404.9	0.0	30404.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.7	2.3
10°-20°	1483.5	4.9
20°-30°	2000.6	6.6
30°-40°	2811.3	9.2
40°-50°	4341.7	14.3
50°-60°	6943.0	22.8
60°-70°	8221.0	27.0
70°-80°	3636.8	12.0
80°-90°	254.2	0.8
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°	30404.9	100.0
0°-180°	30404.9	100.0

Coefficient of Utilization



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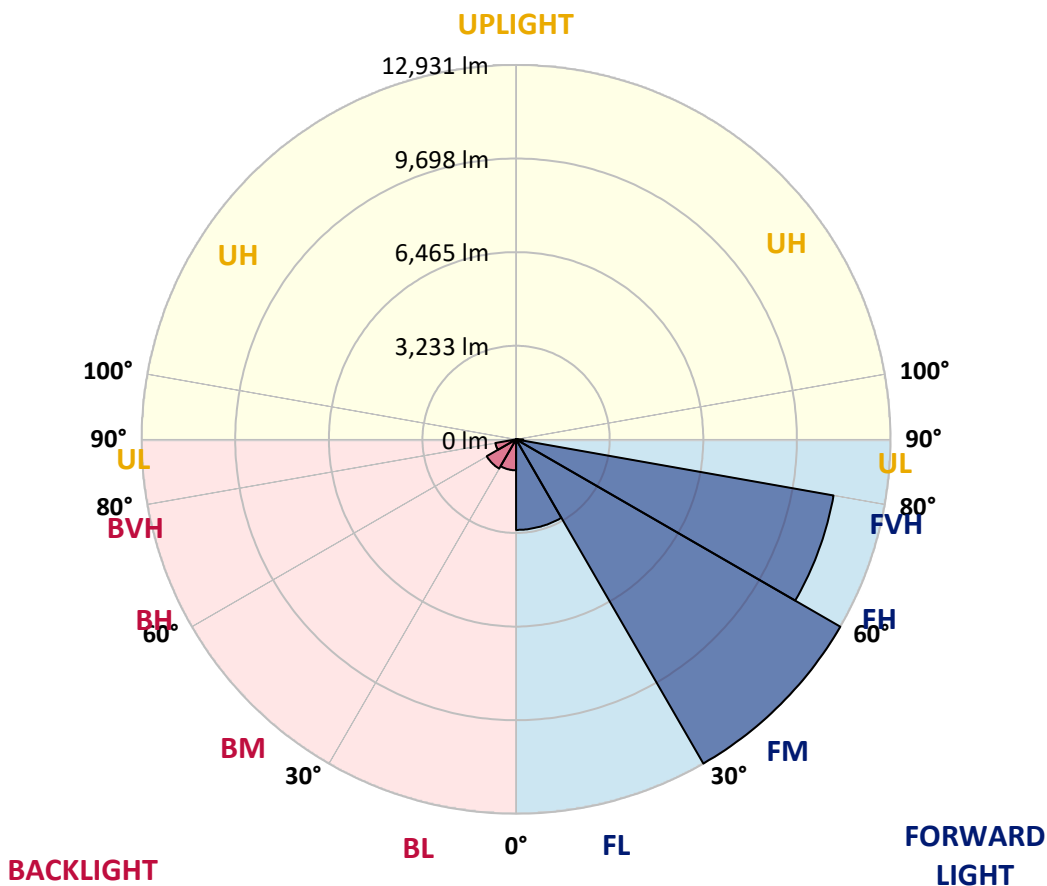
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3127.9	10.3			
FM (30°-60°)	12930.6	42.5			
FH (60°-80°)	11132.7	36.6			G4/12000
FVH (80°-90°)	243.4	0.8			G3/500
BL (0°-30°)	1068.9	3.5	B3/2500		
BM (30°-60°)	1165.5	3.8	B2/2500		
BH (60°-80°)	725.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2
2.5°	9225.0	9241.1	9262.7	9289.6	9284.2	9260.0	9230.4	9163.1	9120.0	8985.5	8821.3
5°	8929.0	8926.3	8980.1	9031.2	9122.7	9171.2	9238.4	9176.6	9155.0	8993.6	8727.1
7.5°	8350.4	8380.0	8441.9	8522.6	8654.5	8797.1	8958.6	8939.7	9004.3	8896.7	8565.7
10°	7782.6	7766.4	7863.3	7984.4	8186.2	8369.2	8603.4	8600.7	8770.2	8759.4	8382.7
12.5°	7284.7	7282.0	7357.4	7494.6	7731.4	7987.1	8304.6	8312.7	8522.6	8608.7	8226.6
15°	6864.9	6870.3	6943.0	7085.6	7330.5	7642.6	8011.3	8078.6	8315.4	8490.3	8073.2
17.5°	6566.2	6568.9	6612.0	6735.8	6975.3	7308.9	7753.0	7844.5	8148.6	8401.5	7949.4
20°	6429.0	6418.2	6426.3	6488.2	6673.9	6977.9	7489.3	7607.7	7995.2	8339.6	7836.4
22.5°	6447.8	6431.7	6394.0	6385.9	6469.3	6700.8	7209.4	7354.7	7828.3	8302.0	7734.1
25°	6614.7	6579.7	6525.8	6445.1	6412.8	6528.5	6964.5	7115.2	7672.2	8304.6	7656.1
27.5°	6870.3	6832.6	6765.4	6657.7	6531.2	6482.8	6797.6	6940.3	7561.9	8366.5	7618.4
30°	7195.9	7166.3	7101.7	6972.6	6803.0	6603.9	6762.7	6881.1	7508.1	8493.0	7634.6
32.5°	7580.7	7559.2	7505.4	7387.0	7193.2	6889.1	6881.1	6972.6	7551.1	8676.0	7696.5
35°	7952.1	7960.2	7962.9	7898.3	7691.1	7322.4	7206.7	7239.0	7728.8	8950.5	7836.4
37.5°	8353.1	8334.2	8431.1	8476.9	8277.7	7884.8	7709.9	7712.6	8067.8	9356.9	8100.1
40°	8657.2	8662.6	8872.5	9060.8	8977.4	8598.0	8347.7	8345.0	8589.9	9913.9	8525.3
42.5°	8942.4	8977.4	9286.9	9609.8	9725.5	9389.1	9208.8	9141.6	9321.9	10667.4	9163.1
45°	9246.5	9297.7	9730.9	10191.1	10495.2	10296.0	10153.4	10180.3	10201.8	11544.7	10021.5
47.5°	9601.7	9634.0	10169.6	10818.1	11385.9	11334.8	11342.9	11310.6	11299.8	12650.7	11157.2
50°	10032.3	10107.7	10723.9	11498.9	12274.0	12613.0	12726.1	12739.5	12564.6	13856.3	12333.2
52.5°	10947.3	11038.8	11566.2	12244.4	13242.8	13955.9	14416.1	14324.6	14055.5	15024.2	13622.2
55°	12026.4	12096.4	12605.0	13307.3	14426.8	15427.9	16520.5	16482.8	15823.5	16254.1	14682.5
57.5°	12128.7	12206.7	12995.2	14071.6	15947.3	17247.1	18396.2	18517.3	17551.2	17126.0	15629.7
60°	10979.6	11138.3	12214.8	13662.6	16528.6	19693.3	20452.1	20476.4	18818.7	18011.3	16786.9
62.5°	8799.8	8875.2	9959.7	11848.8	15632.4	21119.5	23592.6	23081.3	20446.8	19381.1	18619.5
65°	4612.5	4919.3	5863.8	7954.8	12677.6	20621.7	27370.9	27230.9	23374.6	21342.9	20045.8
67.5°	3164.7	3162.0	3385.4	4146.9	7559.2	17755.7	29225.0	30764.3	26760.0	22015.7	19012.4
70°	2408.5	2416.6	2615.7	3110.9	3915.5	11819.2	27190.6	29822.4	27389.7	19989.3	15376.8
72.5°	1598.5	1614.6	1945.6	2513.5	3127.0	5793.9	21130.3	23861.7	23046.3	16054.9	10823.5
75°	955.3	968.8	1205.6	1827.2	2779.9	3242.7	13425.8	16496.3	15863.9	11065.7	5801.9
77.5°	392.9	403.7	618.9	1138.3	2034.4	2518.8	7424.7	10793.9	9502.2	4399.9	1585.0
80°	164.2	169.5	298.7	796.6	1466.6	1579.7	3439.2	5072.7	3894.0	947.3	484.4
82.5°	59.2	61.9	110.3	438.6	912.3	1189.5	1735.7	2004.8	1098.0	309.5	261.0
85°	2.7	2.7	26.9	148.0	347.1	336.4	993.0	960.7	363.3	129.2	156.1
87.5°	0.0	0.0	2.7	2.7	5.4	13.5	94.2	166.8	78.0	32.3	67.3
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°	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2	8770.2
2.5°	8713.7	8571.1	8415.0	8269.7	8038.2	7901.0	7731.4	7656.1	7548.5	7521.5	7537.7
5°	8536.1	8291.2	7917.1	7578.1	7139.4	6786.9	6431.7	6281.0	6087.2	5958.0	5904.2
7.5°	8285.8	7965.6	7381.6	6765.4	6162.6	5519.4	5029.6	4706.7	4413.4	4251.9	4219.6
10°	8032.8	7615.7	6778.8	5896.1	4962.3	4192.7	3530.7	3040.9	2642.6	2462.3	2322.4
12.5°	7771.8	7252.4	6165.2	5013.5	3929.0	2879.4	2061.4	1585.0	1299.8	1186.8	1205.6
15°	7532.3	6902.6	5557.1	4130.8	2766.4	1738.4	1138.3	960.7	893.4	871.9	869.2
17.5°	7303.6	6571.6	4951.6	3272.3	1824.5	1065.7	871.9	828.8	810.0	799.2	799.2
20°	7096.4	6254.0	4359.5	2465.0	1178.7	845.0	788.5	767.0	750.8	742.7	742.7
22.5°	6902.6	5947.3	3781.0	1743.8	869.2	758.9	723.9	702.4	683.5	672.8	672.8
25°	6727.7	5670.1	3229.3	1200.2	748.1	694.3	656.6	632.4	600.1	581.3	581.3
27.5°	6601.2	5422.5	2699.1	874.6	675.5	624.3	581.3	549.0	514.0	492.5	487.1
30°	6525.8	5212.6	2163.6	718.5	608.2	557.1	508.6	468.2	427.9	406.4	403.7
32.5°	6482.8	5018.8	1673.8	627.0	551.7	492.5	438.6	395.6	355.2	331.0	328.3
35°	6498.9	4868.1	1254.0	565.1	497.8	436.0	376.7	333.7	298.7	277.2	271.8
37.5°	6638.9	4800.9	941.9	516.7	452.1	387.5	325.6	285.3	253.0	236.8	234.1
40°	6910.7	4814.3	740.0	479.0	414.4	339.1	279.9	242.2	218.0	204.5	201.8
42.5°	7333.2	4927.4	610.9	446.7	374.1	296.0	242.2	212.6	188.4	174.9	172.2
45°	7962.9	5161.5	532.8	409.0	331.0	255.7	209.9	183.0	161.5	145.3	142.6
47.5°	8875.2	5567.8	481.7	374.1	293.3	220.7	180.3	153.4	134.6	121.1	118.4
50°	9846.6	6054.9	438.6	339.1	261.0	191.1	153.4	126.5	110.3	96.9	94.2
52.5°	10882.7	6579.7	406.4	306.8	231.4	164.2	129.2	105.0	88.8	75.3	72.7
55°	11878.4	7107.1	368.7	285.3	196.4	139.9	107.6	86.1	70.0	59.2	59.2
57.5°	12847.2	7591.5	328.3	250.3	161.5	118.4	88.8	70.0	56.5	48.4	45.7
60°	14004.3	8261.6	282.6	212.6	134.6	99.6	72.7	56.5	45.7	37.7	37.7
62.5°	15723.9	8958.6	242.2	177.6	113.0	83.4	59.2	45.7	37.7	32.3	29.6
65°	16286.4	8581.8	204.5	145.3	91.5	67.3	48.4	40.4	32.3	29.6	26.9
67.5°	14784.7	7034.5	169.5	118.4	75.3	56.5	43.1	35.0	29.6	26.9	24.2
70°	11536.6	4991.9	131.9	88.8	61.9	45.7	37.7	32.3	26.9	24.2	24.2
72.5°	7847.2	2952.1	105.0	67.3	51.1	40.4	32.3	29.6	26.9	24.2	21.5
75°	3864.4	1049.5	80.7	51.1	40.4	35.0	29.6	26.9	24.2	21.5	21.5
77.5°	1041.4	290.6	61.9	40.4	32.3	26.9	26.9	26.9	24.2	18.8	18.8
80°	352.5	121.1	45.7	29.6	26.9	21.5	18.8	24.2	21.5	18.8	16.1
82.5°	193.8	59.2	32.3	24.2	18.8	16.1	16.1	16.1	16.1	13.5	13.5
85°	123.8	32.3	21.5	18.8	18.8	13.5	10.8	10.8	8.1	8.1	8.1
87.5°	56.5	18.8	18.8	16.1	16.1	13.5	8.1	5.4	2.7	2.7	2.7
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)