

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: P643425

Luminaire Tested: GWS-SA6E-830-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643425
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-SAGE-830-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28801.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

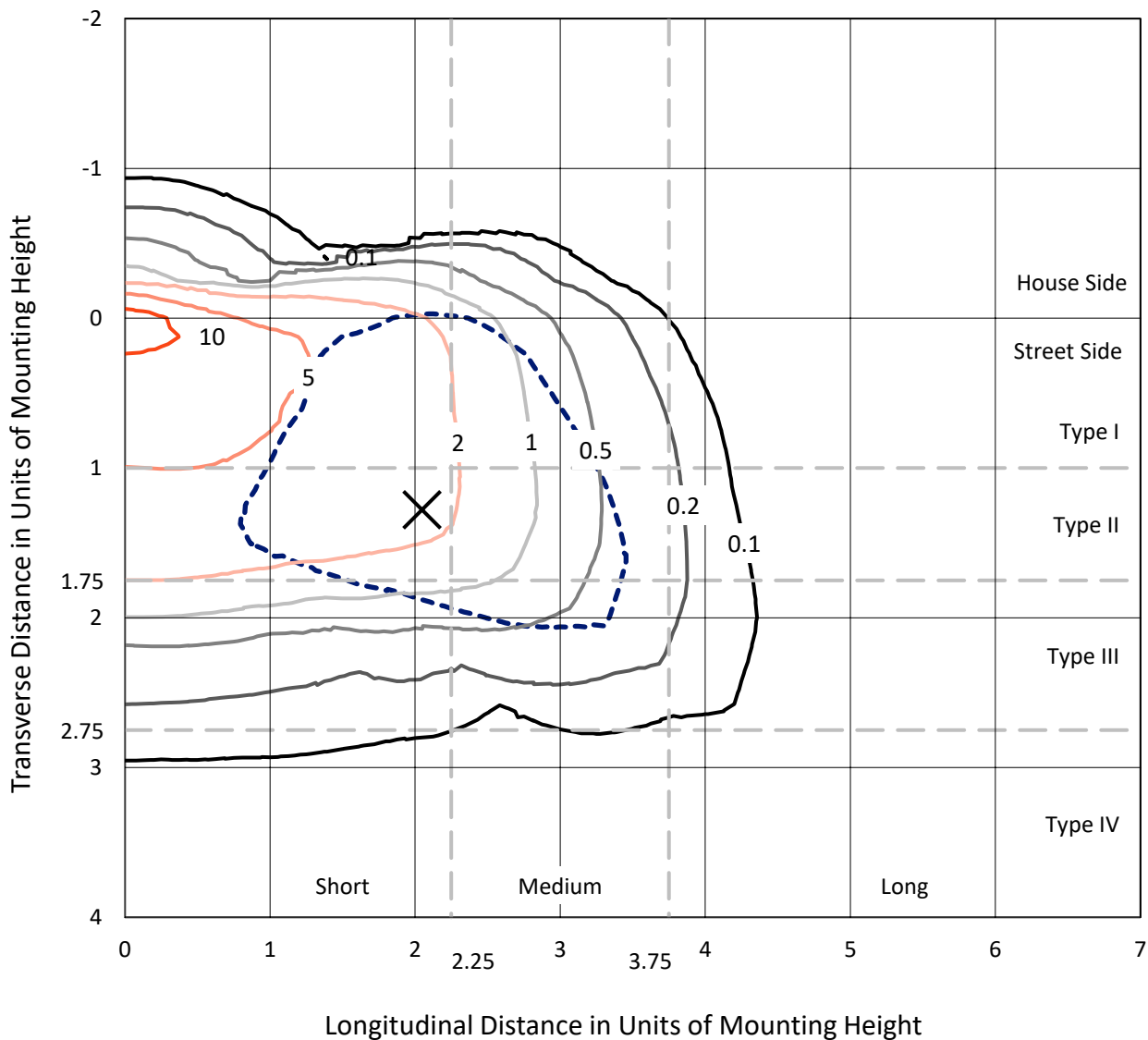
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

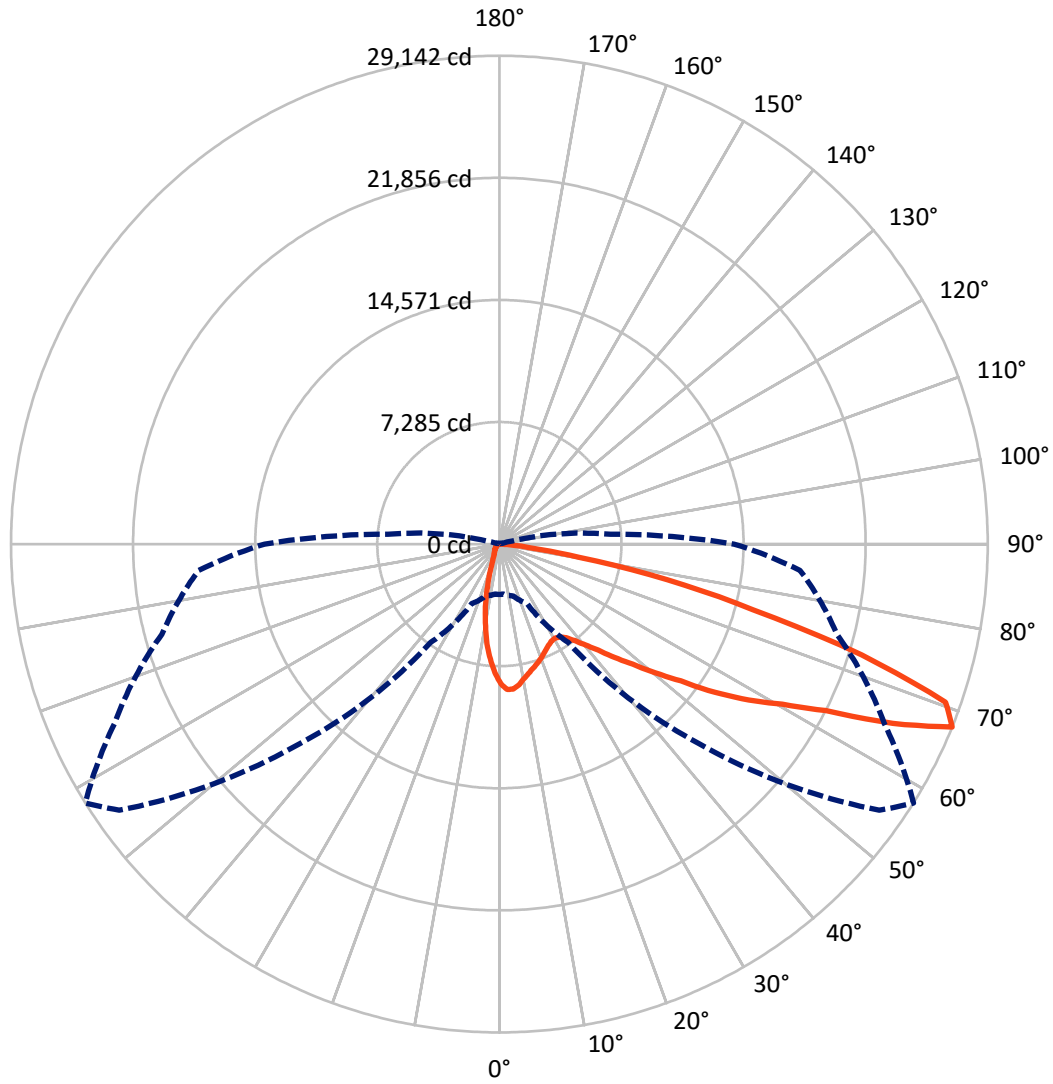
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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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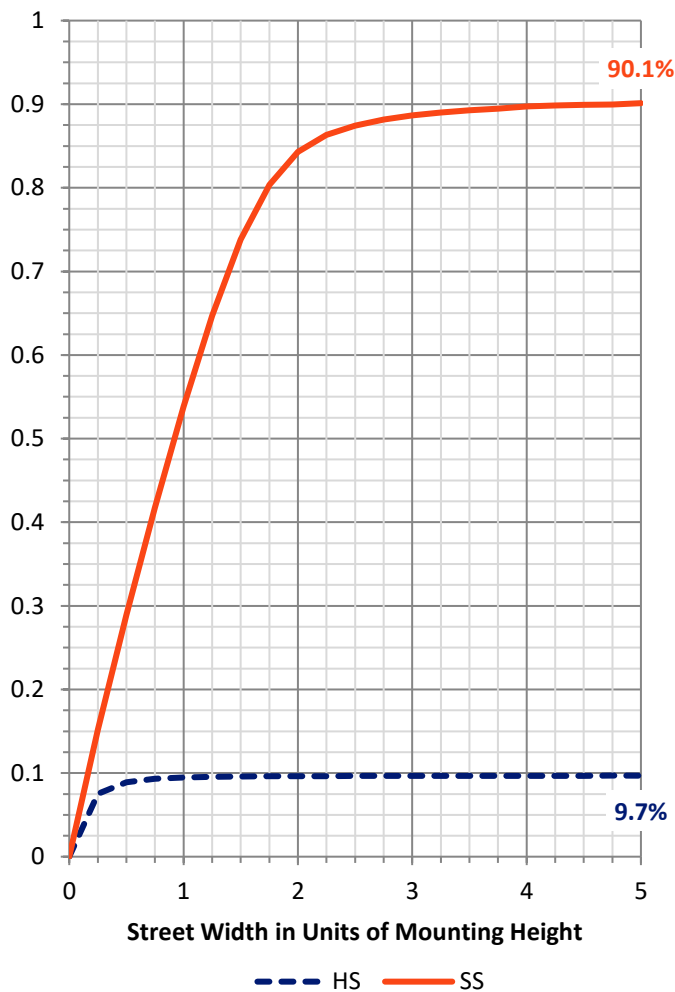
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.7	0.0	2813.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	25987.5	0.0	25987.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	28801.2	0.0	28801.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.1	2.3
10°-20°	1405.3	4.9
20°-30°	1895.1	6.6
30°-40°	2663.0	9.2
40°-50°	4112.7	14.3
50°-60°	6576.8	22.8
60°-70°	7787.4	27.0
70°-80°	3445.0	12.0
80°-90°	240.8	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°	28801.2	100.0
0°-180°	28801.2	100.0

Coefficient of Utilization



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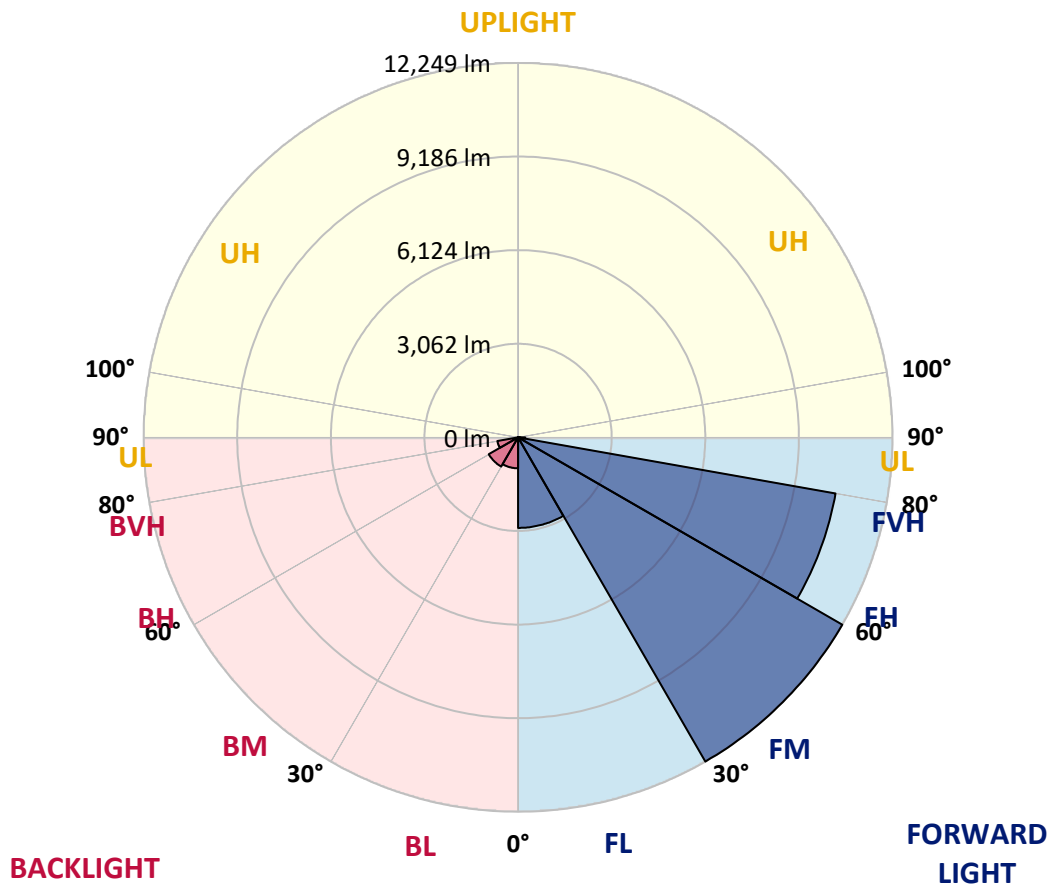
CATALOG NUMBER: GWS-SA6E-830-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2962.9	10.3			
FM (30°-60°)	12248.6	42.5			
FH (60°-80°)	10545.5	36.6			G4/12000
FVH (80°-90°)	230.6	0.8			G3/500
BL (0°-30°)	1012.5	3.5	B3/2500		
BM (30°-60°)	1104.0	3.8	B2/2500		
BH (60°-80°)	686.9	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.2	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°	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6
2.5°	8738.4	8753.7	8774.1	8799.6	8794.5	8771.6	8743.5	8679.8	8639.0	8511.5	8356.1
5°	8458.0	8455.5	8506.5	8554.9	8641.6	8687.4	8751.2	8692.5	8672.1	8519.2	8266.8
7.5°	7910.0	7938.0	7996.6	8073.1	8198.0	8333.1	8486.1	8468.2	8529.4	8427.4	8113.9
10°	7372.1	7356.8	7448.6	7563.3	7754.5	7927.8	8149.6	8147.0	8307.6	8297.4	7940.5
12.5°	6900.5	6897.9	6969.3	7099.3	7323.7	7565.8	7866.6	7874.3	8073.1	8154.7	7792.7
15°	6502.8	6507.9	6576.8	6711.9	6943.8	7239.5	7588.8	7652.5	7876.8	8042.5	7647.4
17.5°	6219.9	6222.4	6263.2	6380.5	6607.3	6923.4	7344.0	7430.7	7718.8	7958.4	7530.1
20°	6089.9	6079.7	6087.3	6146.0	6321.8	6609.9	7094.2	7206.4	7573.5	7899.8	7423.1
22.5°	6107.7	6092.4	6056.7	6049.1	6128.1	6347.3	6829.1	6966.8	7415.4	7864.1	7326.2
25°	6265.8	6232.6	6181.6	6105.2	6074.6	6184.2	6597.2	6739.9	7267.6	7866.6	7252.3
27.5°	6507.9	6472.2	6408.5	6306.6	6186.7	6140.9	6439.1	6574.2	7163.1	7925.2	7216.6
30°	6816.4	6788.3	6727.2	6604.8	6444.2	6255.6	6406.0	6518.1	7112.1	8045.1	7231.9
32.5°	7180.9	7160.5	7109.5	6997.4	6813.8	6525.8	6518.1	6604.8	7152.9	8218.4	7290.5
35°	7532.7	7540.3	7542.9	7481.7	7285.4	6936.2	6826.6	6857.2	7321.1	8478.4	7423.1
37.5°	7912.5	7894.7	7986.4	8029.8	7841.1	7469.0	7303.3	7305.8	7642.3	8863.3	7672.9
40°	8200.6	8205.7	8404.5	8582.9	8503.9	8144.5	7907.4	7904.9	8136.8	9391.0	8075.6
42.5°	8470.8	8503.9	8797.1	9102.9	9212.6	8893.9	8723.1	8659.4	8830.2	10104.8	8679.8
45°	8758.8	8807.2	9217.7	9653.6	9941.6	9753.0	9617.9	9643.4	9663.8	10935.8	9493.0
47.5°	9095.3	9125.9	9633.2	10247.5	10785.4	10736.9	10744.6	10714.0	10703.8	11983.5	10568.7
50°	9503.2	9574.5	10158.3	10892.4	11626.6	11947.8	12054.8	12067.6	11901.9	13125.5	11682.7
52.5°	10369.9	10456.5	10956.2	11598.5	12544.3	13219.8	13655.7	13569.0	13314.1	14231.8	12903.7
55°	11392.1	11458.3	11940.1	12605.5	13665.9	14614.2	15649.1	15613.4	14988.9	15396.8	13908.1
57.5°	11488.9	11562.9	12309.8	13329.4	15106.2	16337.4	17425.9	17540.6	16625.4	16222.7	14805.4
60°	10400.5	10550.9	11570.5	12941.9	15656.8	18654.5	19373.4	19396.3	17826.1	17061.3	15901.5
62.5°	8335.7	8407.0	9434.3	11223.8	14807.9	20005.6	22348.2	21863.9	19368.3	18358.8	17637.4
65°	4369.2	4659.8	5554.6	7535.2	12009.0	19534.0	25927.2	25794.7	22141.8	20217.2	18988.5
67.5°	2997.8	2995.2	3206.8	3928.2	7160.5	16819.2	27683.6	29141.7	25348.6	20854.4	18009.6
70°	2281.5	2289.1	2477.8	2946.8	3709.0	11195.8	25756.4	28249.5	25945.1	18934.9	14565.7
72.5°	1514.2	1529.5	1843.0	2380.9	2962.1	5488.3	20015.8	22603.1	21830.8	15208.1	10252.6
75°	904.9	917.7	1142.0	1730.9	2633.3	3071.7	12717.6	15626.2	15027.1	10482.0	5495.9
77.5°	372.2	382.4	586.3	1078.3	1927.1	2386.0	7033.1	10224.6	9001.0	4167.8	1501.4
80°	155.5	160.6	283.0	754.5	1389.3	1496.3	3257.8	4805.1	3688.6	897.3	458.8
82.5°	56.1	58.6	104.5	415.5	864.2	1126.7	1644.2	1899.1	1040.0	293.2	247.3
85°	2.5	2.5	25.5	140.2	328.8	318.6	940.6	910.0	344.1	122.4	147.8
87.5°	0.0	0.0	2.5	2.5	5.1	12.7	89.2	158.0	73.9	30.6	63.7
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°	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6	8307.6
2.5°	8254.1	8119.0	7971.1	7833.5	7614.3	7484.2	7323.7	7252.3	7150.3	7124.8	7140.1
5°	8085.8	7853.9	7499.5	7178.4	6762.8	6428.9	6092.4	5949.7	5766.1	5643.8	5592.8
7.5°	7848.8	7545.4	6992.3	6408.5	5837.5	5228.3	4764.3	4458.4	4180.6	4027.6	3997.0
10°	7609.2	7214.0	6421.3	5585.1	4700.6	3971.5	3344.5	2880.5	2503.2	2332.5	2199.9
12.5°	7361.9	6869.9	5840.1	4749.0	3721.7	2727.6	1952.6	1501.4	1231.2	1124.2	1142.0
15°	7135.0	6538.5	5264.0	3912.9	2620.5	1646.7	1078.3	910.0	846.3	825.9	823.4
17.5°	6918.3	6225.0	4690.4	3099.7	1728.3	1009.5	825.9	785.1	767.3	757.1	757.1
20°	6722.1	5924.2	4129.6	2335.0	1116.5	800.4	746.9	726.5	711.2	703.6	703.6
22.5°	6538.5	5633.6	3581.5	1651.8	823.4	718.9	685.7	665.3	647.5	637.3	637.3
25°	6372.8	5371.0	3059.0	1136.9	708.7	657.7	622.0	599.0	568.5	550.6	550.6
27.5°	6253.0	5136.5	2556.8	828.5	639.8	591.4	550.6	520.0	486.9	466.5	461.4
30°	6181.6	4937.7	2049.5	680.6	576.1	527.7	481.8	443.5	405.3	384.9	382.4
32.5°	6140.9	4754.1	1585.6	593.9	522.6	466.5	415.5	374.7	336.5	313.5	311.0
35°	6156.2	4611.4	1187.9	535.3	471.6	413.0	356.9	316.1	283.0	262.6	257.5
37.5°	6288.7	4547.6	892.2	489.4	428.3	367.1	308.4	270.2	239.6	224.3	221.8
40°	6546.2	4560.4	701.0	453.7	392.6	321.2	265.1	229.4	206.5	193.7	191.2
42.5°	6946.4	4667.5	578.7	423.2	354.3	280.4	229.4	201.4	178.4	165.7	163.1
45°	7542.9	4889.2	504.7	387.5	313.5	242.2	198.8	173.3	152.9	137.7	135.1
47.5°	8407.0	5274.2	456.3	354.3	277.9	209.0	170.8	145.3	127.5	114.7	112.2
50°	9327.3	5735.5	415.5	321.2	247.3	181.0	145.3	119.8	104.5	91.8	89.2
52.5°	10308.7	6232.6	384.9	290.6	219.2	155.5	122.4	99.4	84.1	71.4	68.8
55°	11251.9	6732.3	349.2	270.2	186.1	132.6	102.0	81.6	66.3	56.1	56.1
57.5°	12169.6	7191.1	311.0	237.1	152.9	112.2	84.1	66.3	53.5	45.9	43.3
60°	13265.7	7825.8	267.7	201.4	127.5	94.3	68.8	53.5	43.3	35.7	35.7
62.5°	14894.6	8486.1	229.4	168.2	107.1	79.0	56.1	43.3	35.7	30.6	28.0
65°	15427.3	8129.2	193.7	137.7	86.7	63.7	45.9	38.2	30.6	28.0	25.5
67.5°	14004.9	6663.4	160.6	112.2	71.4	53.5	40.8	33.1	28.0	25.5	22.9
70°	10928.1	4728.6	124.9	84.1	58.6	43.3	35.7	30.6	25.5	22.9	22.9
72.5°	7433.3	2796.4	99.4	63.7	48.4	38.2	30.6	28.0	25.5	22.9	20.4
75°	3660.6	994.2	76.5	48.4	38.2	33.1	28.0	25.5	22.9	20.4	20.4
77.5°	986.5	275.3	58.6	38.2	30.6	25.5	25.5	25.5	22.9	17.8	17.8
80°	333.9	114.7	43.3	28.0	25.5	20.4	17.8	22.9	20.4	17.8	15.3
82.5°	183.5	56.1	30.6	22.9	17.8	15.3	15.3	15.3	15.3	12.7	12.7
85°	117.3	30.6	20.4	17.8	17.8	12.7	10.2	10.2	7.6	7.6	7.6
87.5°	53.5	17.8	17.8	15.3	15.3	12.7	7.6	5.1	2.5	2.5	2.5
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)