

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: P643414

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29820.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

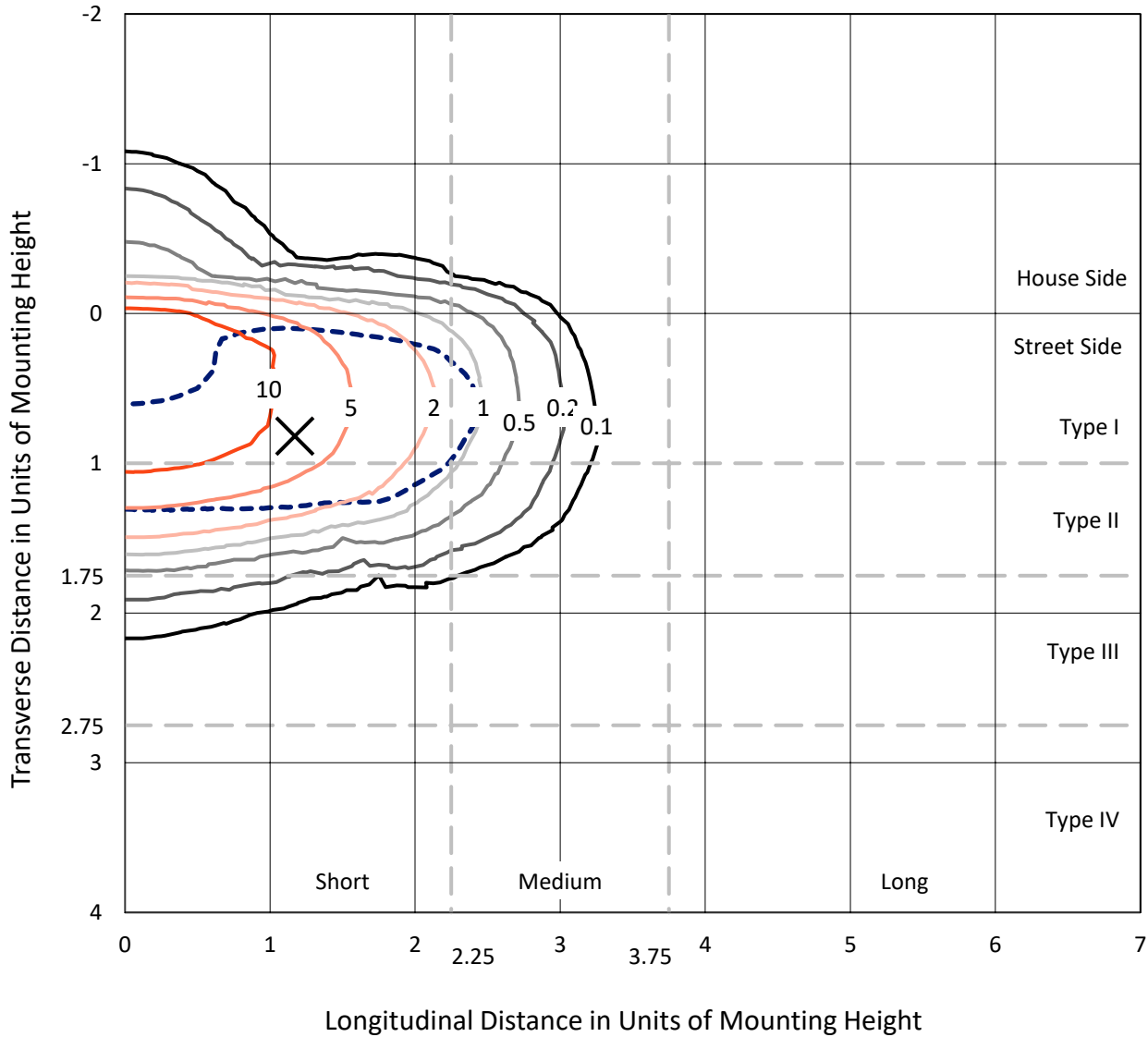
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

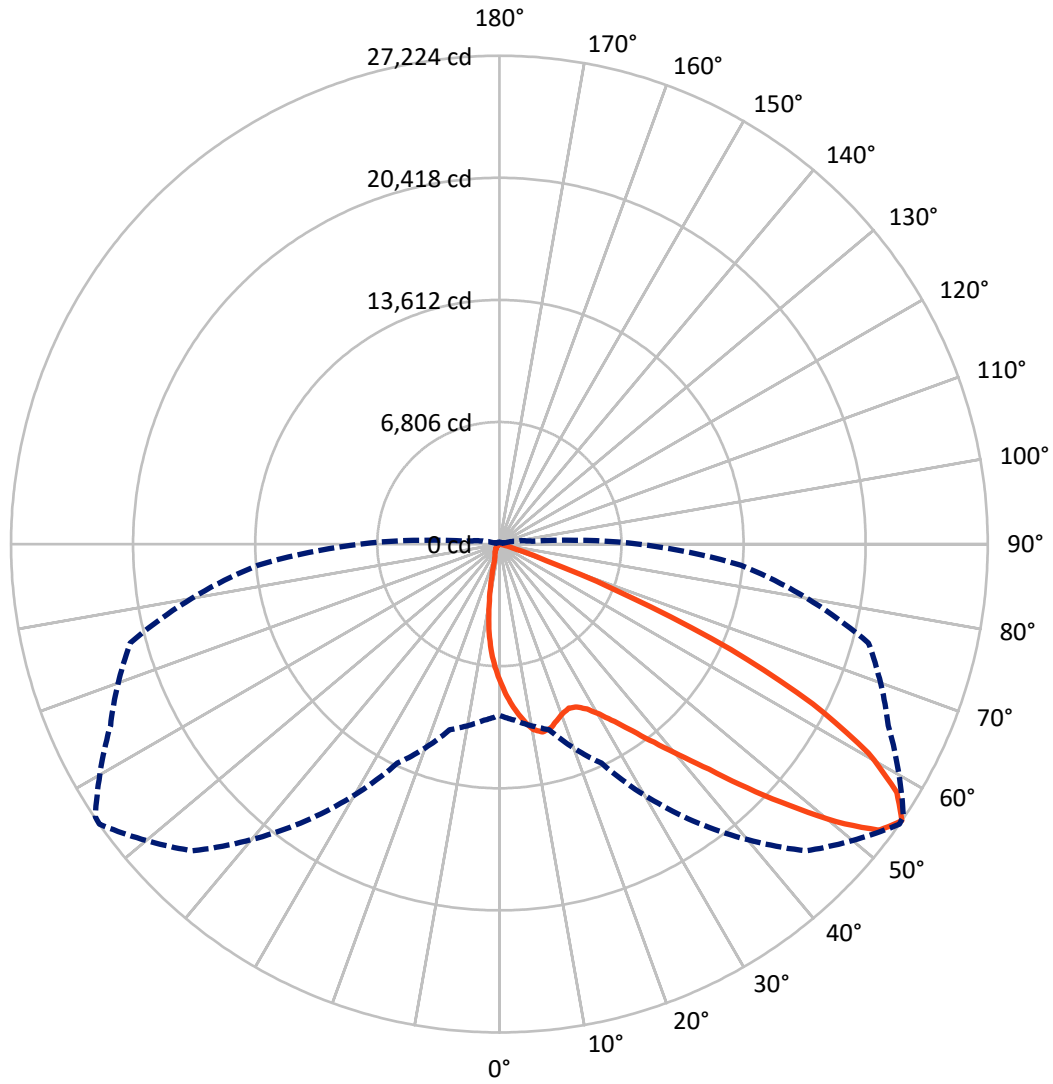
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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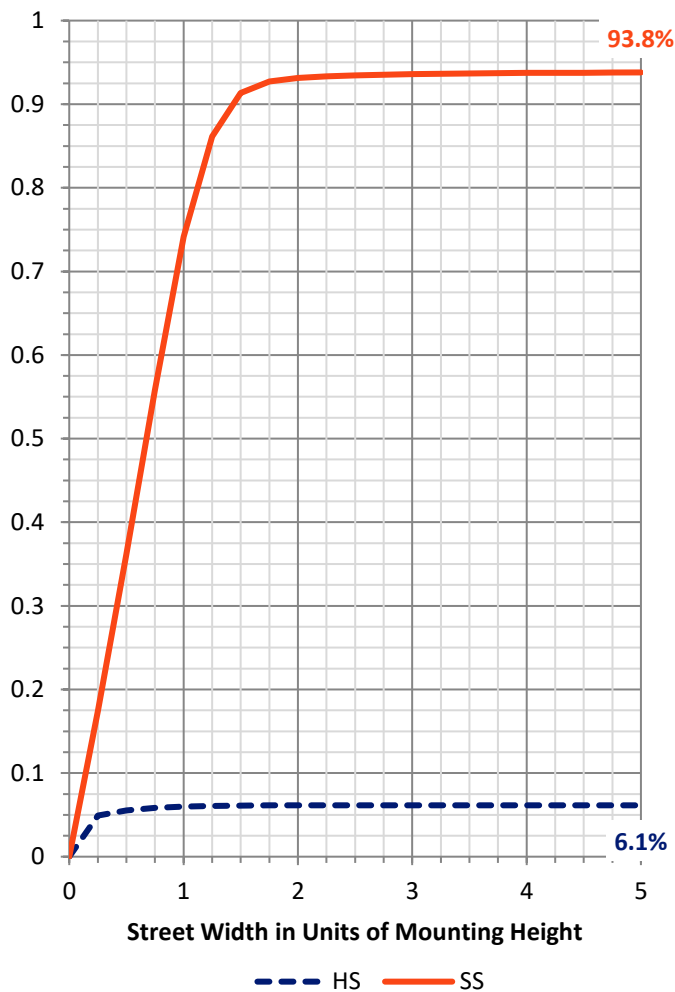
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.1	0.0	1840.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27980.7	0.0	27980.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	29820.8	0.0	29820.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.8	2.3
10°-20°	1641.4	5.5
20°-30°	2733.6	9.2
30°-40°	4658.3	15.6
40°-50°	7603.9	25.5
50°-60°	7960.9	26.7
60°-70°	4015.3	13.5
70°-80°	507.2	1.7
80°-90°	19.2	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°	29820.8	100.0
0°-180°	29820.8	100.0

Coefficient of Utilization



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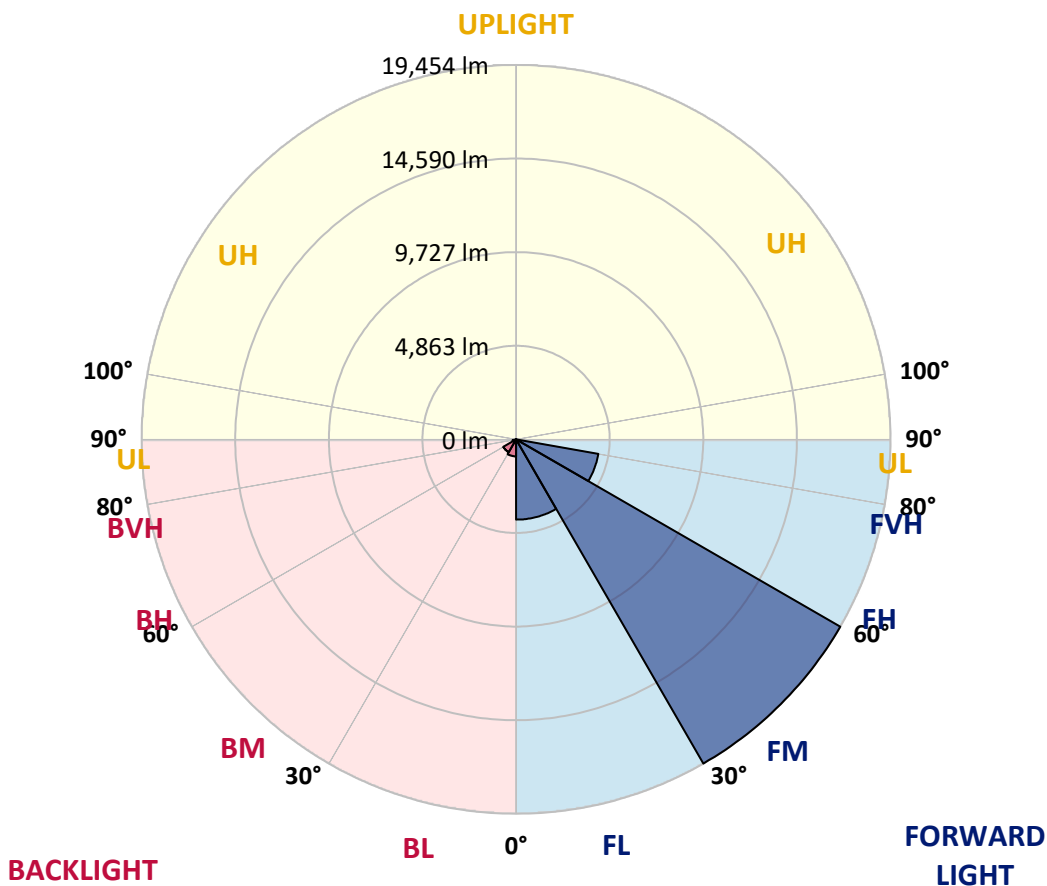
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.5	14.0			
FM (30°-60°)	19453.8	65.2			
FH (60°-80°)	4337.9	14.5			G2/5000
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	884.4	3.0	B2/1000		
BM (30°-60°)	769.3	2.6	B1/1000		
BH (60°-80°)	184.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9
2.5°	8981.1	8937.8	9004.1	8927.6	8797.6	8688.0	8545.2	8494.2	8264.8	8048.1	7839.1
5°	10072.2	10085.0	10064.6	9957.5	9774.0	9570.0	9282.0	9218.2	8818.0	8405.0	7958.9
7.5°	10342.5	10334.8	10378.2	10418.9	10388.3	10286.4	9972.8	9909.1	9412.0	8792.5	8142.4
10°	9508.8	9513.9	9603.2	9878.5	10220.1	10574.4	10526.0	10490.3	10003.4	9231.0	8346.4
12.5°	8331.1	8377.0	8471.3	8863.9	9442.6	10248.1	10747.8	10783.5	10546.4	9712.8	8586.0
15°	7821.2	7831.4	7907.9	8145.0	8575.8	9570.0	10653.5	10752.9	11000.2	10197.2	8846.0
17.5°	7808.5	7821.2	7854.4	7958.9	8239.3	9037.2	10350.1	10523.5	11341.8	10717.2	9157.0
20°	8287.7	8280.1	8257.1	8201.1	8323.4	8861.3	10069.7	10260.9	11527.9	11224.5	9470.6
22.5°	9157.0	9146.8	9044.9	8812.9	8713.5	9021.9	9932.0	10105.4	11640.0	11675.7	9728.1
25°	10158.9	10230.3	10039.1	9687.3	9442.6	9432.4	10054.4	10176.8	11736.9	12076.0	9904.0
27.5°	11257.7	11280.6	11117.4	10722.3	10368.0	10090.1	10408.7	10500.5	11844.0	12432.9	10003.4
30°	12463.5	12455.8	12269.7	11810.9	11380.0	10979.8	11005.3	11041.0	12093.8	12840.8	10113.0
32.5°	13970.1	14003.2	13671.8	13047.3	12529.8	11976.6	11785.4	11790.5	12545.0	13365.9	10278.7
35°	16017.2	15935.6	15497.1	14607.4	13725.4	13128.8	12802.5	12774.5	13241.0	14072.1	10566.8
37.5°	17967.4	17975.0	17516.2	16537.2	15423.2	14482.5	14021.1	13944.6	14219.9	15051.0	11046.1
40°	19321.1	19346.5	19155.3	18642.9	17462.6	16131.9	15453.8	15374.8	15489.5	16289.9	11673.2
42.5°	20037.4	20108.8	20162.3	20282.1	19387.3	18191.7	17149.1	17141.4	17021.6	17702.3	12399.7
45°	20065.4	20172.5	20498.8	21317.1	21419.1	20542.2	19407.7	19236.9	18775.5	19214.0	13049.8
47.5°	18956.5	19203.8	19897.2	21518.5	22589.2	22879.9	21755.6	21651.1	20356.1	20409.6	13536.7
50°	16371.5	16629.0	17906.2	20486.1	22885.0	24735.7	24333.0	24116.3	21676.6	21199.9	13771.3
52.5°	13720.3	13954.8	14821.6	18028.6	21658.8	25319.5	26504.9	26247.5	22862.0	21475.2	13674.4
55°	9547.1	9860.6	10707.0	13475.5	18834.1	24182.5	27223.8	27170.3	23920.0	21301.8	13524.0
57.5°	4680.5	4991.5	5835.3	8308.1	13952.3	21113.2	26125.1	26408.1	24552.2	21115.8	13401.6
60°	1955.3	2082.8	2373.4	3645.5	7805.9	15956.0	23644.6	24037.2	24164.7	20863.4	13388.9
62.5°	1134.4	1154.8	1185.4	1511.7	3036.2	9146.8	19614.2	20172.5	22127.8	20529.4	13187.5
65°	856.6	864.2	851.5	927.9	1254.2	3469.6	14171.5	14931.2	18469.6	19224.2	12392.1
67.5°	703.6	703.6	670.5	685.8	787.7	1300.1	7823.8	8884.3	13666.7	15800.5	10232.8
70°	560.8	573.6	558.3	537.9	563.4	718.9	2783.8	3451.7	7958.9	9330.4	5967.9
72.5°	425.7	425.7	451.2	435.9	418.1	451.2	971.3	1091.1	3194.3	3890.2	2154.1
75°	328.9	339.1	356.9	341.6	316.1	267.7	466.5	494.6	963.6	905.0	481.8
77.5°	168.3	170.8	226.9	249.8	234.5	163.2	203.9	224.3	313.6	280.4	178.5
80°	102.0	107.1	127.5	196.3	155.5	86.7	84.1	89.2	147.9	127.5	73.9
82.5°	43.3	45.9	71.4	71.4	63.7	33.1	33.1	33.1	71.4	66.3	30.6
85°	0.0	0.0	12.7	10.2	10.2	12.7	12.7	12.7	17.8	25.5	15.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.6	7.6
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°	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9	7703.9
2.5°	7703.9	7540.8	7321.6	7122.7	6855.0	6704.6	6495.6	6324.8	6179.5	6133.6	6113.2
5°	7706.5	7426.1	6957.0	6487.9	5911.8	5458.0	4991.5	4621.9	4318.5	4221.6	4196.1
7.5°	7757.5	7344.5	6584.8	5733.3	4769.7	3974.3	3263.1	2625.8	2330.0	2230.6	2210.2
10°	7826.3	7275.7	6154.0	4828.4	3444.1	2421.8	1715.7	1307.8	1114.0	1007.0	1022.3
12.5°	7915.5	7219.6	5677.3	3849.4	2279.1	1330.7	943.2	790.3	749.5	729.1	718.9
15°	8035.4	7153.3	5085.8	2878.1	1397.0	856.6	726.5	685.8	670.5	660.3	657.7
17.5°	8157.7	7076.8	4484.2	2024.1	927.9	711.3	652.6	632.2	622.0	614.4	611.8
20°	8287.7	6946.8	3778.0	1394.5	731.6	639.9	601.6	578.7	565.9	553.2	550.6
22.5°	8343.8	6737.8	3102.5	976.4	650.1	588.9	540.4	512.4	497.1	486.9	486.9
25°	8290.3	6398.7	2404.0	741.8	591.4	532.8	484.4	453.8	441.0	430.8	430.8
27.5°	8147.5	5962.8	1753.9	614.4	527.7	474.2	428.3	400.2	390.0	384.9	384.9
30°	7989.5	5412.1	1236.4	527.7	456.3	413.0	374.7	356.9	354.4	349.3	349.3
32.5°	7854.4	4897.2	851.5	464.0	402.8	359.4	334.0	326.3	328.9	323.8	326.3
35°	7780.4	4392.4	632.2	413.0	359.4	318.7	305.9	305.9	305.9	303.4	303.4
37.5°	7811.0	3895.3	515.0	377.3	321.2	290.6	277.9	283.0	288.1	288.1	288.1
40°	7964.0	3454.3	456.3	344.2	288.1	265.1	254.9	262.6	270.2	275.3	275.3
42.5°	8157.7	3097.4	413.0	316.1	265.1	239.6	234.5	242.2	249.8	254.9	254.9
45°	8280.1	2737.9	369.6	280.4	242.2	211.6	211.6	221.8	219.2	221.8	221.8
47.5°	8336.2	2452.4	326.3	242.2	206.5	183.5	186.1	191.2	186.1	191.2	191.2
50°	8198.5	2164.3	288.1	201.4	170.8	160.6	165.7	163.2	163.2	173.4	173.4
52.5°	7946.1	1950.2	254.9	170.8	145.3	142.8	147.9	137.7	140.2	140.2	137.7
55°	7760.0	1827.8	226.9	147.9	124.9	127.5	124.9	107.1	96.9	86.7	84.1
57.5°	7668.3	1779.4	206.5	132.6	112.2	112.2	102.0	73.9	56.1	43.3	38.2
60°	7647.9	1720.8	186.1	114.7	99.4	94.3	73.9	43.3	28.0	20.4	17.8
62.5°	7454.1	1578.0	168.3	91.8	86.7	76.5	45.9	25.5	15.3	10.2	7.6
65°	6819.3	1297.6	150.4	71.4	66.3	56.1	28.0	15.3	7.6	2.5	0.0
67.5°	5424.9	920.3	132.6	53.5	45.9	35.7	17.8	10.2	2.5	0.0	0.0
70°	3128.0	497.1	109.6	38.2	30.6	22.9	12.7	5.1	0.0	0.0	0.0
72.5°	1045.2	232.0	84.1	25.5	22.9	17.8	7.6	2.5	0.0	0.0	0.0
75°	229.4	137.7	56.1	17.8	15.3	12.7	5.1	0.0	0.0	0.0	0.0
77.5°	86.7	96.9	28.0	12.7	10.2	7.6	2.5	0.0	0.0	0.0	0.0
80°	33.1	63.7	12.7	7.6	7.6	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	25.5	7.6	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	12.7	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	2.5	2.5	0.0	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)