

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: P637889

Luminaire Tested: GWS-SA4D-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637889
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-SA4D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19925.6 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

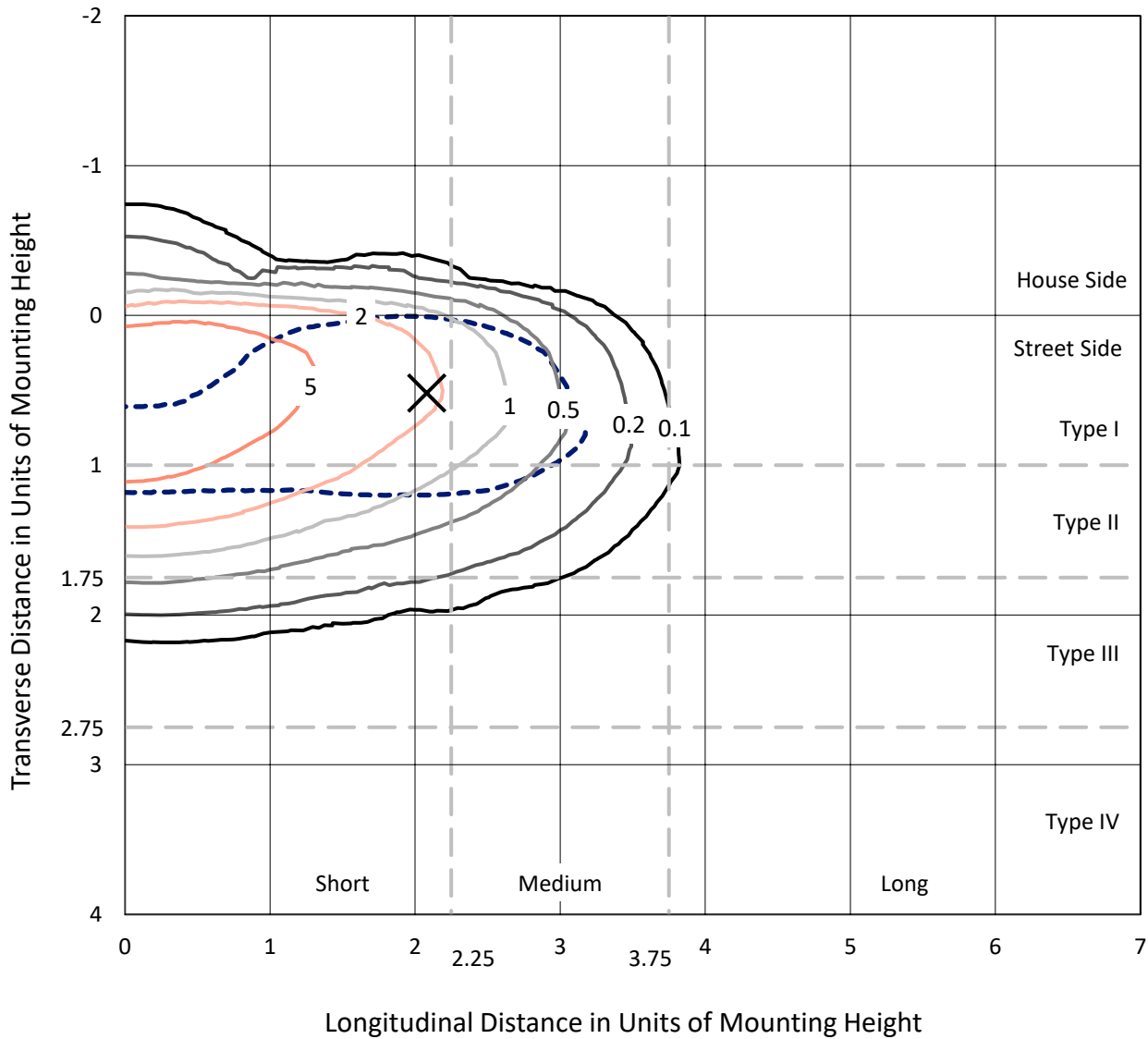
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

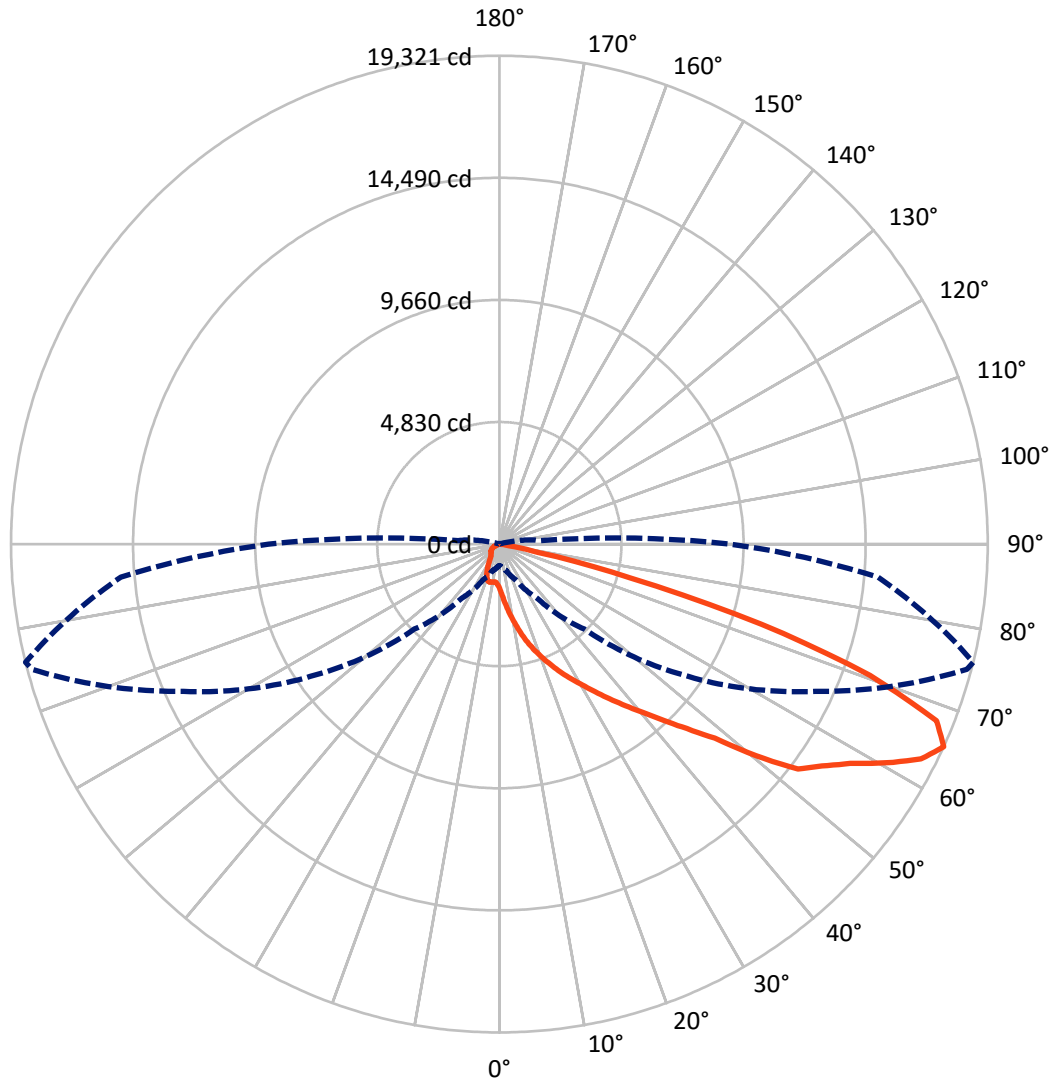
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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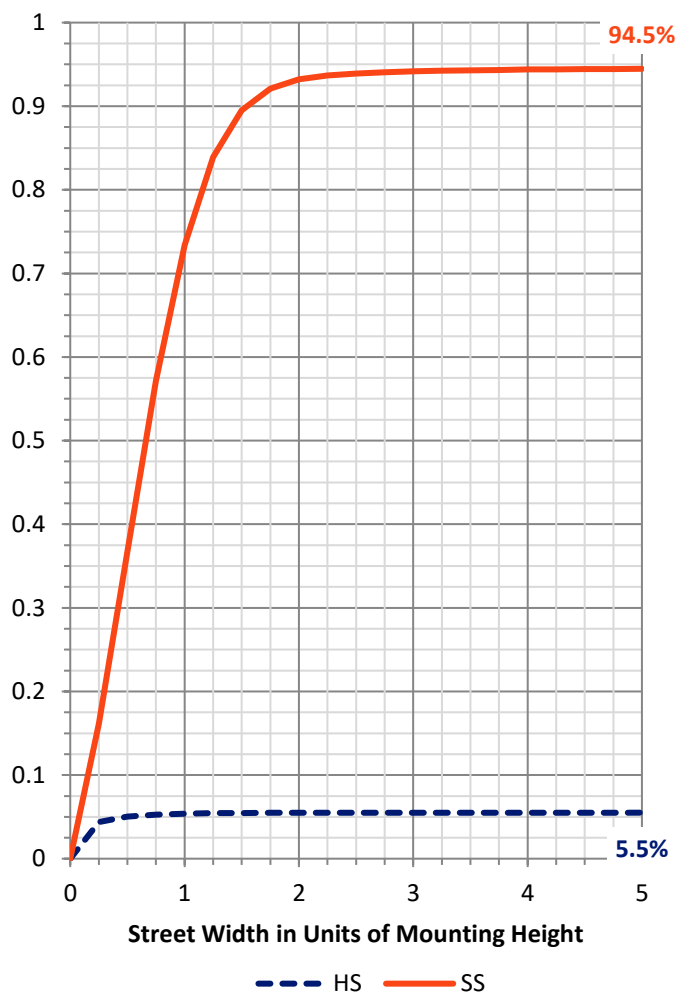
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.8	0.0	1101.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18823.8	0.0	18823.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	19925.6	0.0	19925.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	1.1
10°-20°	814.4	4.1
20°-30°	1661.4	8.3
30°-40°	2954.9	14.8
40°-50°	4368.0	21.9
50°-60°	5001.0	25.1
60°-70°	3815.6	19.1
70°-80°	1068.8	5.4
80°-90°	26.9	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°	19925.6	100.0
0°-180°	19925.6	100.0

Coefficient of Utilization



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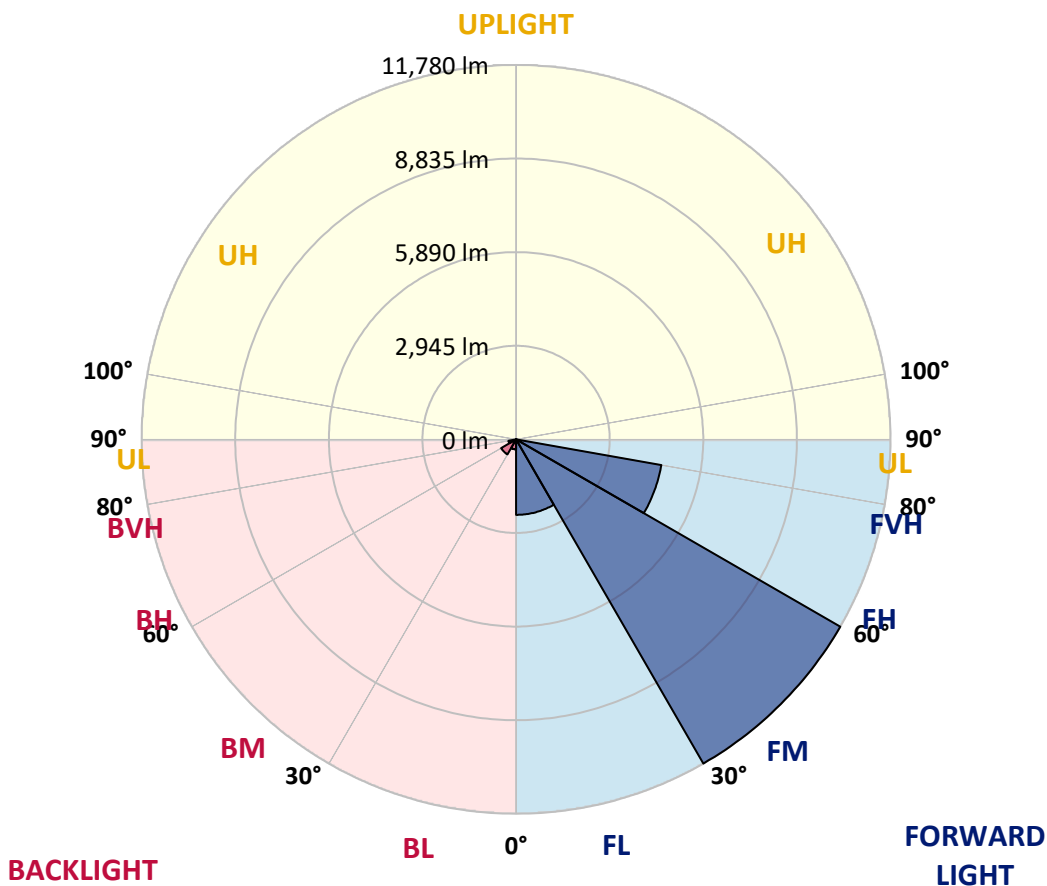
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.0	11.9			
FM (30°-60°)	11780.3	59.1			
FH (60°-80°)	4642.2	23.3			G2/5000
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	314.4	1.6	B1/500		
BM (30°-60°)	543.6	2.7	B1/1000		
BH (60°-80°)	242.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1
2.5°	2718.8	2759.6	2727.7	2674.6	2571.8	2472.6	2345.1	2169.8	2029.8	2012.1	1881.0
5°	3671.8	3668.2	3599.1	3530.1	3422.0	3252.0	2995.1	2669.2	2355.7	2329.2	2035.1
7.5°	4238.5	4243.9	4204.9	4151.8	4045.5	3870.1	3602.7	3209.5	2750.7	2697.6	2245.9
10°	4715.0	4713.2	4684.9	4660.1	4564.5	4447.6	4160.6	3728.4	3175.8	3092.6	2481.5
12.5°	5072.8	5085.2	5099.4	5124.2	5083.4	4968.3	4697.3	4226.1	3606.2	3514.1	2750.7
15°	5356.2	5359.7	5412.9	5508.5	5542.2	5481.9	5235.7	4707.9	4031.3	3951.6	3060.7
17.5°	5441.2	5448.3	5538.6	5714.0	5891.1	5924.8	5738.8	5193.2	4449.3	4364.3	3361.8
20°	5620.1	5636.0	5703.4	5857.4	6080.6	6261.3	6188.7	5683.9	4867.3	4755.7	3670.0
22.5°	6183.4	6192.2	6169.2	6188.7	6303.8	6512.8	6557.1	6158.6	5296.0	5177.3	4003.0
25°	7152.2	7155.8	6994.6	6842.3	6755.5	6794.4	6891.8	6596.1	5721.1	5604.2	4312.9
27.5°	8158.3	8170.7	7977.6	7719.0	7409.0	7231.9	7203.6	6996.3	6149.7	6020.4	4619.4
30°	9105.9	9105.9	8902.2	8586.9	8172.4	7827.1	7623.4	7400.2	6608.4	6466.8	4932.9
32.5°	9957.8	9950.8	9690.4	9348.5	8939.4	8560.3	8131.7	7821.7	7118.6	6960.9	5294.2
35°	10661.0	10643.3	10347.5	10019.8	9582.3	9300.7	8822.5	8275.2	7671.2	7513.5	5666.2
37.5°	11192.4	11172.9	10901.9	10554.7	10149.1	9966.7	9566.4	8818.9	8253.9	8110.4	6078.9
40°	11481.1	11442.1	11254.4	10995.8	10655.7	10496.3	10329.8	9493.8	8939.4	8760.5	6565.9
42.5°	11566.1	11520.1	11396.1	11275.6	11070.2	10944.4	11123.3	10255.4	9692.2	9538.1	7122.1
45°	11314.6	11288.0	11277.4	11364.2	11401.4	11436.8	11877.9	11098.5	10522.9	10406.0	7821.7
47.5°	10708.8	10701.8	10795.6	11157.0	11550.2	11923.9	12697.9	12138.2	11599.8	11474.0	8799.5
50°	9589.4	9662.0	9924.2	10558.3	11344.7	12200.2	13464.9	13580.0	13342.7	13158.4	10074.7
52.5°	7839.5	7979.4	8567.4	9531.0	10661.0	12122.3	13819.1	14734.8	14977.5	14786.2	10988.7
55°	6151.5	6282.5	6806.8	8029.0	9536.3	11528.9	13835.1	15133.4	15663.0	15485.8	11606.9
57.5°	4582.2	4702.6	5179.1	6348.1	8005.9	10361.7	13456.0	15354.8	16476.0	16362.6	12582.8
60°	2995.1	3113.8	3544.2	4566.2	6209.9	8661.3	12522.6	15308.7	17583.0	17572.3	13781.9
62.5°	1661.4	1755.3	2067.0	2864.1	4334.2	6707.6	11056.0	14846.4	18654.6	18721.9	14770.3
65°	850.2	910.4	1099.9	1574.6	2623.2	4755.7	9127.1	13787.2	19150.5	19320.5	15030.6
67.5°	556.2	575.6	621.7	818.3	1404.6	2991.6	6868.8	12088.6	18452.6	18651.0	14157.4
70°	451.7	467.6	494.2	545.5	724.4	1588.8	4511.3	9655.0	15418.5	15553.1	11273.9
72.5°	331.2	352.5	403.8	437.5	522.5	871.4	2346.9	6337.5	10588.4	10825.7	7084.9
75°	244.4	256.8	299.3	345.4	426.9	550.9	898.0	3331.7	5467.8	5329.6	2975.7
77.5°	147.0	155.9	191.3	221.4	304.7	343.6	313.5	1231.0	1663.2	1564.0	719.1
80°	72.6	81.5	125.8	166.5	194.8	138.2	131.1	343.6	370.2	370.2	180.7
82.5°	24.8	31.9	67.3	109.8	95.6	53.1	62.0	88.6	99.2	104.5	53.1
85°	0.0	0.0	15.9	31.9	14.2	7.1	15.9	19.5	24.8	26.6	17.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.1	7.1
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°	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1	1764.1
2.5°	1810.2	1726.9	1601.2	1487.8	1401.0	1319.6	1257.6	1208.0	1199.1	1170.8	1174.3
5°	1891.7	1741.1	1509.1	1330.2	1204.4	1119.4	1048.6	995.4	972.4	949.4	931.7
7.5°	2017.4	1799.6	1473.7	1255.8	1108.8	977.7	867.9	779.3	736.8	710.3	692.5
10°	2171.5	1881.0	1475.4	1211.5	993.7	793.5	643.0	545.5	499.5	485.3	483.5
12.5°	2355.7	1983.8	1489.6	1138.9	827.2	589.8	476.5	432.2	418.0	405.6	405.6
15°	2550.6	2098.9	1489.6	1006.1	630.6	460.5	412.7	384.4	366.6	359.6	356.0
17.5°	2756.0	2206.9	1454.2	823.6	483.5	405.6	366.6	340.1	325.9	315.3	311.7
20°	2975.7	2309.7	1365.6	630.6	414.5	363.1	325.9	299.3	285.2	274.5	274.5
22.5°	3198.8	2405.3	1222.1	485.3	366.6	322.4	286.9	262.1	248.0	237.3	237.3
25°	3406.1	2469.1	1037.9	400.3	331.2	286.9	255.1	230.3	214.3	207.2	203.7
27.5°	3599.1	2509.8	834.2	352.5	297.6	256.8	223.2	200.1	187.8	182.4	178.9
30°	3799.3	2520.5	637.6	320.6	269.2	226.7	194.8	177.1	166.5	159.4	159.4
32.5°	3994.1	2508.1	487.1	294.0	244.4	200.1	173.6	157.6	148.8	143.5	141.7
35°	4192.5	2451.4	395.0	271.0	219.6	175.4	154.1	141.7	136.4	129.3	129.3
37.5°	4408.6	2375.2	343.6	248.0	194.8	157.6	138.2	129.3	122.2	116.9	115.1
40°	4677.8	2286.7	315.3	228.5	171.8	141.7	124.0	115.1	109.8	104.5	102.7
42.5°	4996.6	2199.9	301.1	207.2	154.1	125.8	111.6	101.0	95.6	88.6	86.8
45°	5448.3	2180.4	285.2	184.2	138.2	113.4	97.4	86.8	79.7	74.4	72.6
47.5°	6174.5	2235.3	258.6	159.4	122.2	99.2	83.2	74.4	65.5	60.2	56.7
50°	6895.4	2221.1	232.0	138.2	108.0	85.0	70.8	62.0	53.1	47.8	46.1
52.5°	7288.6	2153.8	207.2	122.2	93.9	72.6	60.2	49.6	44.3	39.0	37.2
55°	7644.6	2127.2	182.4	106.3	79.7	63.8	49.6	40.7	37.2	31.9	30.1
57.5°	8342.5	2189.2	161.2	92.1	69.1	54.9	42.5	33.7	30.1	24.8	23.0
60°	9072.2	2196.3	138.2	79.7	60.2	46.1	33.7	26.6	23.0	17.7	15.9
62.5°	9453.0	2017.4	113.4	67.3	49.6	39.0	28.3	21.3	17.7	10.6	10.6
65°	9134.2	1631.3	95.6	54.9	39.0	30.1	21.3	15.9	10.6	5.3	1.8
67.5°	8083.9	1160.2	79.7	44.3	28.3	21.3	15.9	10.6	1.8	0.0	0.0
70°	5919.4	662.4	62.0	31.9	21.3	14.2	10.6	5.3	0.0	0.0	0.0
72.5°	3638.1	354.2	46.1	21.3	15.9	10.6	8.9	3.5	0.0	0.0	0.0
75°	1379.8	170.0	28.3	14.2	12.4	8.9	5.3	1.8	0.0	0.0	0.0
77.5°	373.7	83.2	15.9	10.6	8.9	5.3	3.5	0.0	0.0	0.0	0.0
80°	97.4	39.0	10.6	7.1	5.3	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	17.7	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.2	7.1	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	1.8	1.8	1.8	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)