

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: P641984

Luminaire Tested: GWS-SA6C-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641984
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-SA6C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17539.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

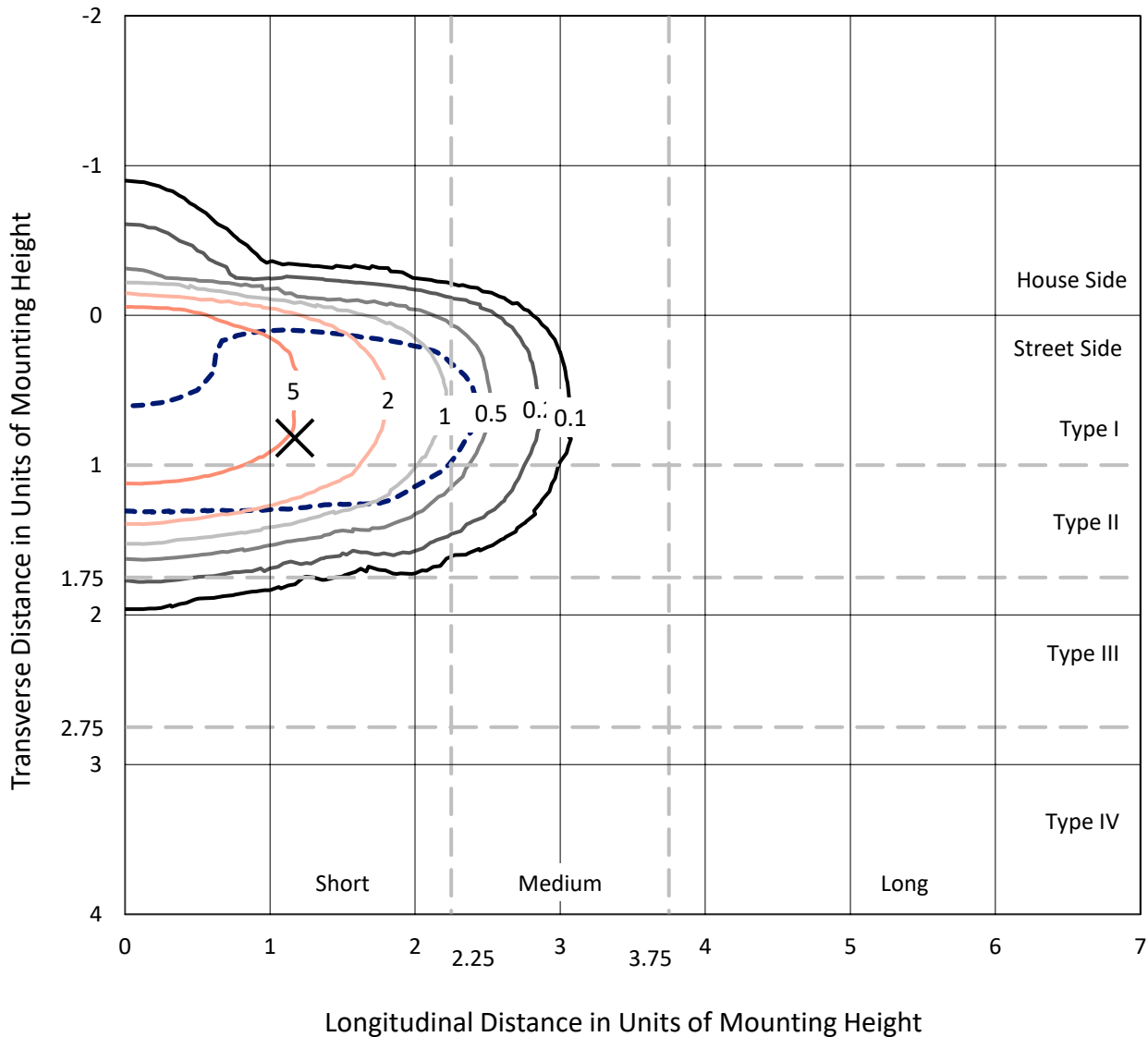
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

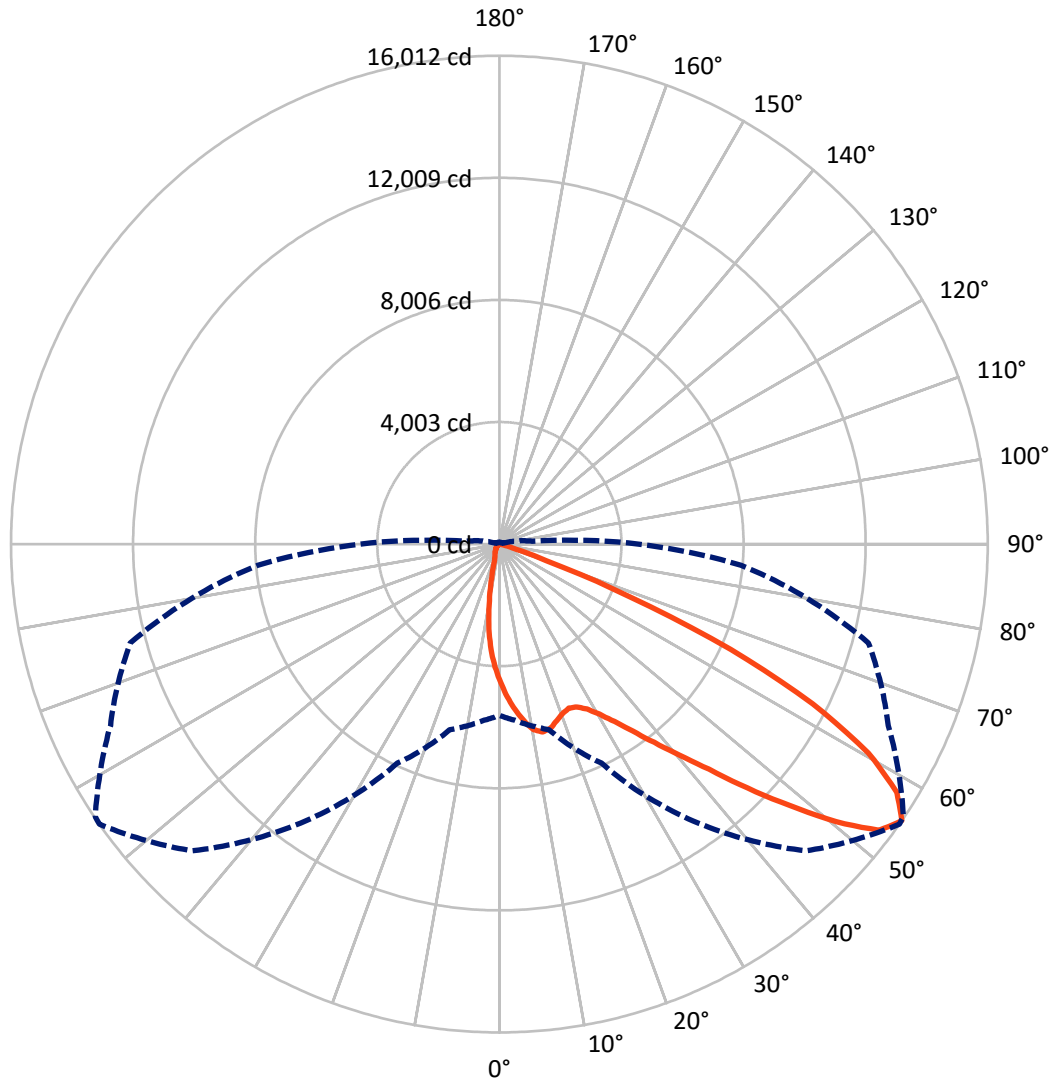
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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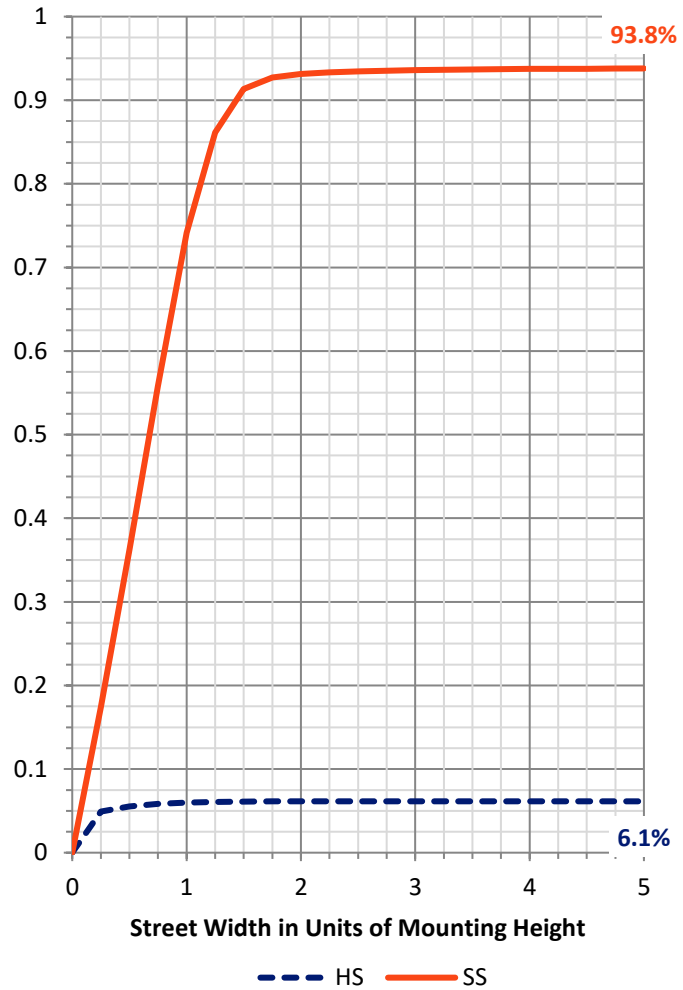
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.3	0.0	1082.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16457.3	0.0	16457.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	17539.6	0.0	17539.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.4	2.3
10°-20°	965.4	5.5
20°-30°	1607.8	9.2
30°-40°	2739.8	15.6
40°-50°	4472.4	25.5
50°-60°	4682.4	26.7
60°-70°	2361.7	13.5
70°-80°	298.3	1.7
80°-90°	11.3	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°	17539.6	100.0
0°-180°	17539.6	100.0

Coefficient of Utilization



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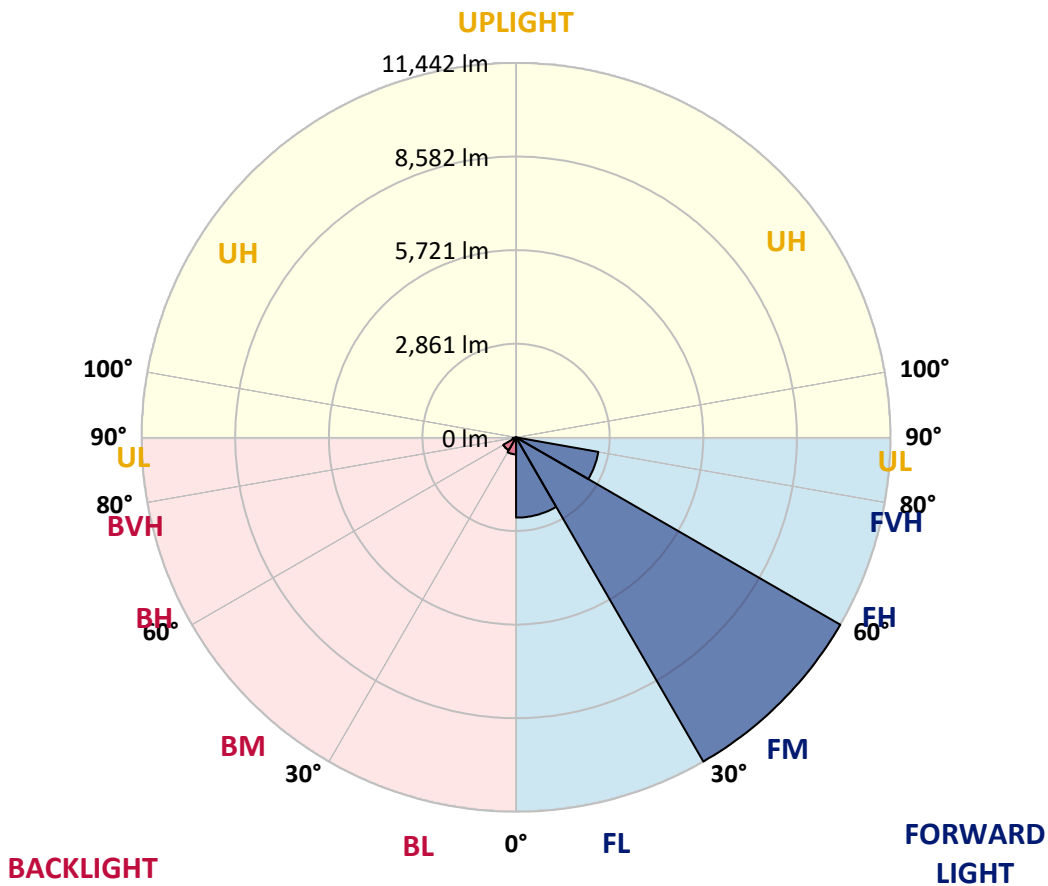
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2453.5	14.0			
FM (30°-60°)	11442.0	65.2			
FH (60°-80°)	2551.4	14.5			G2/5000
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	520.2	3.0	B2/1000		
BM (30°-60°)	452.5	2.6	B1/1000		
BH (60°-80°)	108.6	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2
2.5°	5282.4	5256.9	5295.9	5250.9	5174.5	5110.0	5026.0	4996.0	4861.1	4733.6	4610.7
5°	5924.2	5931.7	5919.7	5856.7	5748.7	5628.8	5459.3	5421.9	5186.4	4943.5	4681.1
7.5°	6083.1	6078.6	6104.1	6128.1	6110.1	6050.1	5865.7	5828.2	5535.8	5171.5	4789.1
10°	5592.8	5595.8	5648.3	5810.2	6011.1	6219.5	6191.0	6170.1	5883.7	5429.3	4909.1
12.5°	4900.1	4927.0	4982.5	5213.4	5553.8	6027.6	6321.5	6342.5	6203.0	5712.7	5050.0
15°	4600.2	4606.2	4651.2	4790.6	5044.0	5628.8	6266.0	6324.5	6469.9	5997.6	5202.9
17.5°	4592.7	4600.2	4619.7	4681.1	4846.1	5315.4	6087.6	6189.5	6670.9	6303.5	5385.9
20°	4874.6	4870.1	4856.6	4823.6	4895.6	5211.9	5922.7	6035.1	6780.3	6601.9	5570.3
22.5°	5385.9	5379.9	5319.9	5183.4	5125.0	5306.4	5841.7	5943.6	6846.3	6867.3	5721.7
25°	5975.1	6017.1	5904.7	5697.7	5553.8	5547.8	5913.7	5985.6	6903.3	7102.7	5825.2
27.5°	6621.4	6634.9	6538.9	6306.5	6098.1	5934.6	6122.1	6176.1	6966.2	7312.6	5883.7
30°	7330.6	7326.1	7216.6	6946.7	6693.3	6457.9	6472.9	6493.9	7113.2	7552.5	5948.1
32.5°	8216.7	8236.2	8041.3	7674.0	7369.6	7044.2	6931.8	6934.8	7378.6	7861.4	6045.6
35°	9420.8	9372.8	9114.9	8591.6	8072.8	7721.9	7530.0	7513.5	7787.9	8276.7	6215.0
37.5°	10567.8	10572.3	10302.4	9726.6	9071.4	8518.1	8246.7	8201.8	8363.7	8852.5	6496.9
40°	11364.0	11379.0	11266.5	10965.2	10270.9	9488.2	9089.4	9042.9	9110.4	9581.2	6865.8
42.5°	11785.3	11827.3	11858.8	11929.3	11403.0	10699.8	10086.5	10082.0	10011.5	10411.9	7293.1
45°	11801.8	11864.8	12056.7	12538.0	12598.0	12082.2	11415.0	11314.5	11043.1	11301.0	7675.5
47.5°	11149.6	11295.0	11702.9	12656.5	13286.2	13457.2	12795.9	12734.5	11972.8	12004.2	7961.8
50°	9629.2	9780.6	10531.8	12049.2	13460.2	14548.7	14311.8	14184.4	12749.5	12469.1	8099.8
52.5°	8069.8	8207.7	8717.5	10603.8	12739.0	14892.1	15589.3	15437.9	13446.7	12631.0	8042.8
55°	5615.3	5799.7	6297.5	7925.9	11077.6	14223.4	16012.2	15980.7	14068.9	12529.0	7954.3
57.5°	2752.9	2935.8	3432.1	4886.6	8206.2	12418.1	15365.9	15532.3	14440.8	12419.6	7882.4
60°	1150.0	1225.0	1395.9	2144.2	4591.2	9384.8	13907.0	14137.9	14212.9	12271.1	7874.9
62.5°	667.2	679.2	697.2	889.1	1785.8	5379.9	11536.4	11864.8	13014.8	12074.7	7756.4
65°	503.8	508.3	500.8	545.8	737.7	2040.7	8335.2	8782.0	10863.2	11307.0	7288.6
67.5°	413.8	413.8	394.3	403.3	463.3	764.7	4601.7	5225.4	8038.3	9293.3	6018.6
70°	329.9	337.4	328.4	316.4	331.4	422.8	1637.4	2030.2	4681.1	5487.8	3510.1
72.5°	250.4	250.4	265.4	256.4	245.9	265.4	571.3	641.7	1878.8	2288.1	1267.0
75°	193.4	199.4	209.9	200.9	185.9	157.4	274.4	290.9	566.8	532.3	283.4
77.5°	99.0	100.5	133.4	146.9	137.9	96.0	120.0	131.9	184.4	164.9	105.0
80°	60.0	63.0	75.0	115.5	91.5	51.0	49.5	52.5	87.0	75.0	43.5
82.5°	25.5	27.0	42.0	42.0	37.5	19.5	19.5	19.5	42.0	39.0	18.0
85°	0.0	0.0	7.5	6.0	6.0	7.5	7.5	7.5	10.5	15.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	4.5
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°	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2	4531.2
2.5°	4531.2	4435.2	4306.3	4189.3	4031.9	3943.4	3820.5	3720.0	3634.6	3607.6	3595.6
5°	4532.7	4367.8	4091.9	3816.0	3477.1	3210.2	2935.8	2718.4	2540.0	2483.0	2468.0
7.5°	4562.7	4319.8	3873.0	3372.2	2805.4	2337.6	1919.2	1544.4	1370.5	1312.0	1300.0
10°	4603.2	4279.3	3619.6	2839.9	2025.7	1424.4	1009.1	769.2	655.2	592.3	601.3
12.5°	4655.7	4246.3	3339.2	2264.1	1340.5	782.7	554.8	464.8	440.8	428.8	422.8
15°	4726.1	4207.3	2991.3	1692.8	821.7	503.8	427.3	403.3	394.3	388.3	386.8
17.5°	4798.1	4162.4	2637.5	1190.5	545.8	418.3	383.8	371.9	365.9	361.4	359.9
20°	4874.6	4085.9	2222.1	820.2	430.3	376.4	353.9	340.4	332.9	325.4	323.9
22.5°	4907.6	3962.9	1824.8	574.3	382.3	346.4	317.9	301.4	292.4	286.4	286.4
25°	4876.1	3763.5	1413.9	436.3	347.9	313.4	284.9	266.9	259.4	253.4	253.4
27.5°	4792.1	3507.1	1031.6	361.4	310.4	278.9	251.9	235.4	229.4	226.4	226.4
30°	4699.1	3183.2	727.2	310.4	268.4	242.9	220.4	209.9	208.4	205.4	205.4
32.5°	4619.7	2880.4	500.8	272.9	236.9	211.4	196.4	191.9	193.4	190.4	191.9
35°	4576.2	2583.5	371.9	242.9	211.4	187.4	179.9	179.9	179.9	178.4	178.4
37.5°	4594.2	2291.1	302.9	221.9	188.9	170.9	163.4	166.4	169.4	169.4	169.4
40°	4684.1	2031.7	268.4	202.4	169.4	155.9	149.9	154.4	158.9	161.9	161.9
42.5°	4798.1	1821.8	242.9	185.9	155.9	140.9	137.9	142.4	146.9	149.9	149.9
45°	4870.1	1610.4	217.4	164.9	142.4	124.5	124.5	130.4	128.9	130.4	130.4
47.5°	4903.1	1442.4	191.9	142.4	121.5	108.0	109.5	112.5	109.5	112.5	112.5
50°	4822.1	1273.0	169.4	118.5	100.5	94.5	97.5	96.0	96.0	102.0	102.0
52.5°	4673.6	1147.0	149.9	100.5	85.5	84.0	87.0	81.0	82.5	82.5	81.0
55°	4564.2	1075.1	133.4	87.0	73.5	75.0	73.5	63.0	57.0	51.0	49.5
57.5°	4510.2	1046.6	121.5	78.0	66.0	66.0	60.0	43.5	33.0	25.5	22.5
60°	4498.2	1012.1	109.5	67.5	58.5	55.5	43.5	25.5	16.5	12.0	10.5
62.5°	4384.3	928.1	99.0	54.0	51.0	45.0	27.0	15.0	9.0	6.0	4.5
65°	4010.9	763.2	88.5	42.0	39.0	33.0	16.5	9.0	4.5	1.5	0.0
67.5°	3190.7	541.3	78.0	31.5	27.0	21.0	10.5	6.0	1.5	0.0	0.0
70°	1839.8	292.4	64.5	22.5	18.0	13.5	7.5	3.0	0.0	0.0	0.0
72.5°	614.8	136.4	49.5	15.0	13.5	10.5	4.5	1.5	0.0	0.0	0.0
75°	134.9	81.0	33.0	10.5	9.0	7.5	3.0	0.0	0.0	0.0	0.0
77.5°	51.0	57.0	16.5	7.5	6.0	4.5	1.5	0.0	0.0	0.0	0.0
80°	19.5	37.5	7.5	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	15.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	7.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	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)