

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: P635909

Luminaire Tested: GWS-SA3E-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635909
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-SA3E-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17893.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

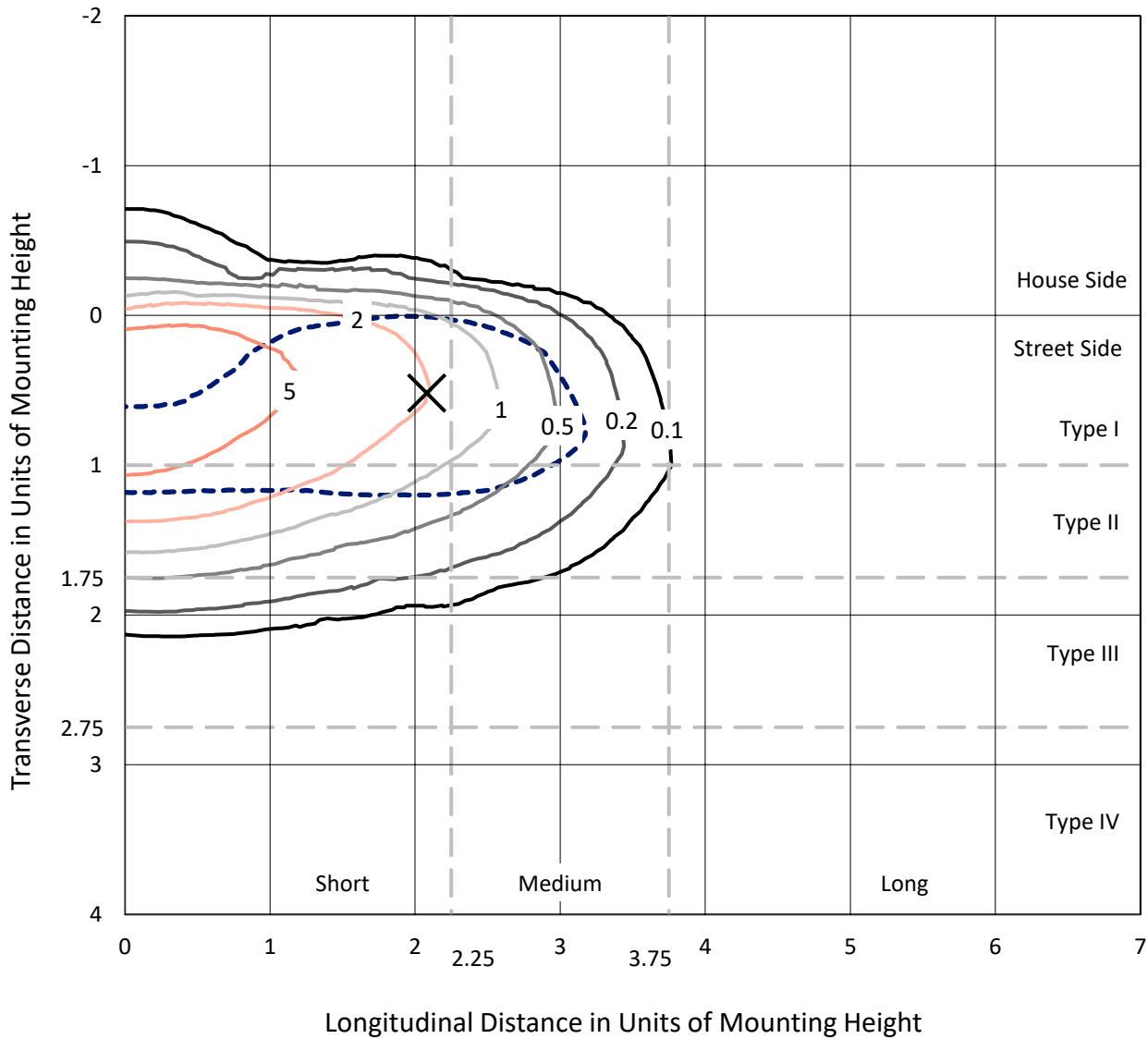
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

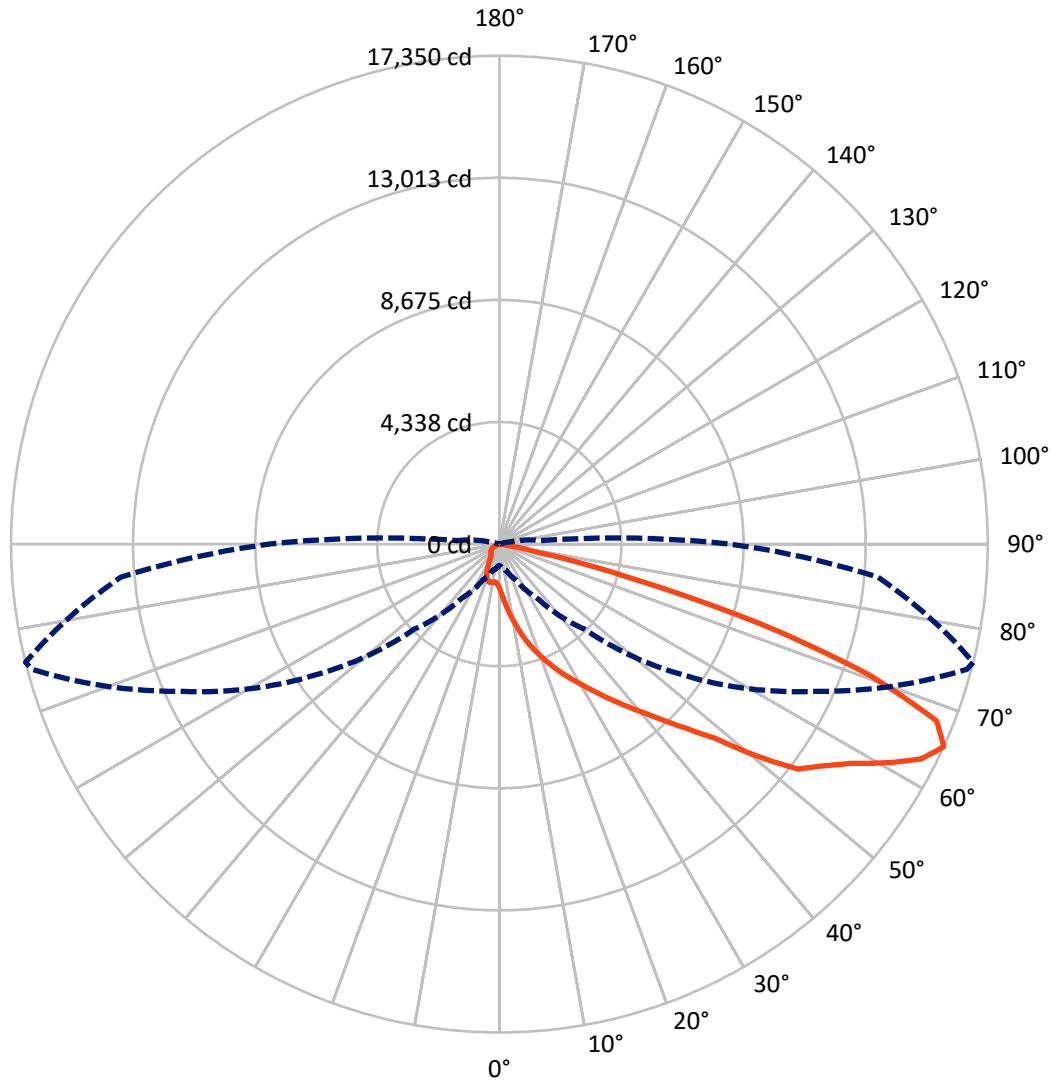
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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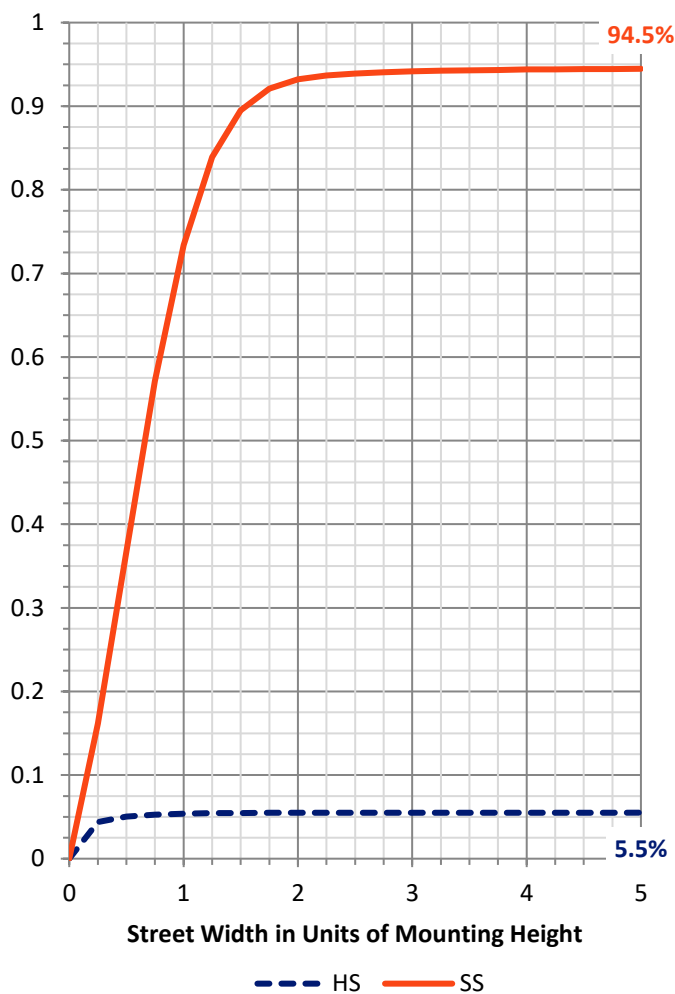
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	989.4	0.0	989.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	16904.1	0.0	16904.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	17893.5	0.0	17893.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.1
10°-20°	731.3	4.1
20°-30°	1492.0	8.3
30°-40°	2653.5	14.8
40°-50°	3922.5	21.9
50°-60°	4491.0	25.1
60°-70°	3426.4	19.1
70°-80°	959.8	5.4
80°-90°	24.2	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°	17893.5	100.0
0°-180°	17893.5	100.0

Coefficient of Utilization

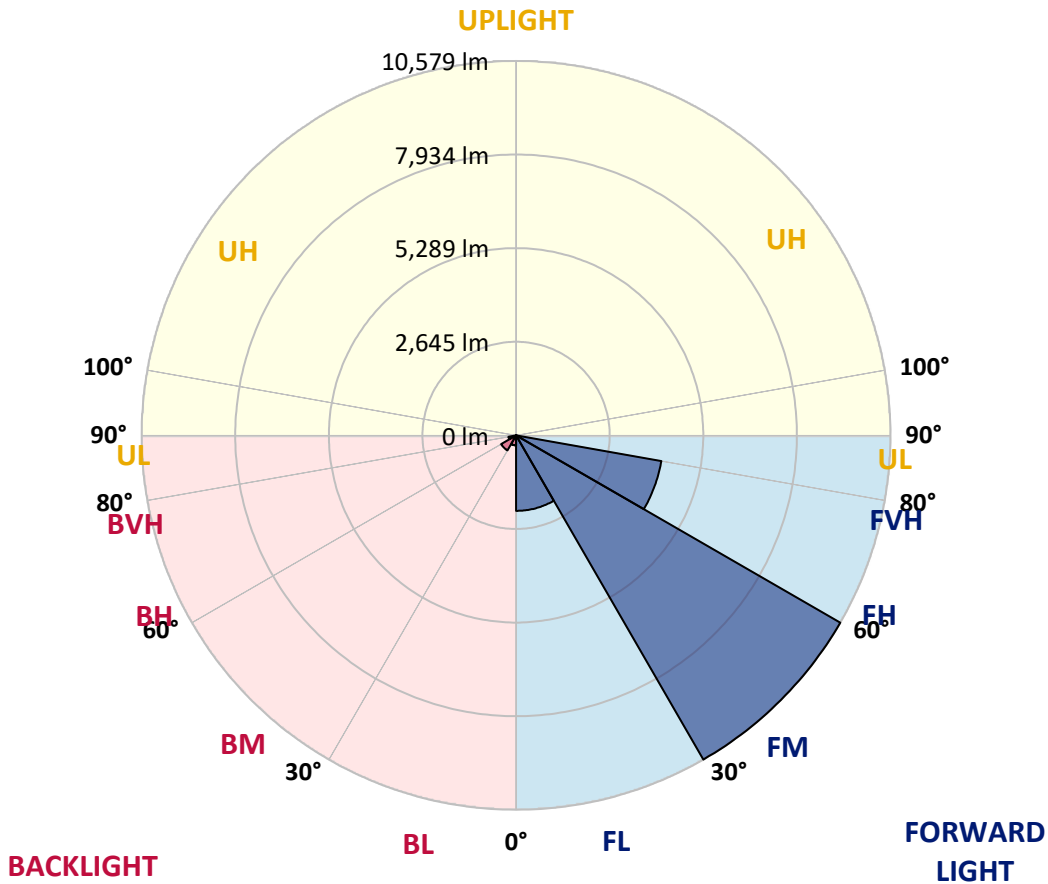


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2133.7	11.9			
FM (30°-60°)	10578.9	59.1			
FH (60°-80°)	4168.8	23.3			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	282.3	1.6	B1/500		
BM (30°-60°)	488.2	2.7	B1/1000		
BH (60°-80°)	217.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2
2.5°	2441.6	2478.1	2449.5	2401.8	2309.5	2220.5	2105.9	1948.5	1822.8	1806.9	1689.2
5°	3297.3	3294.1	3232.1	3170.0	3073.0	2920.3	2689.7	2397.0	2115.5	2091.6	1827.6
7.5°	3806.3	3811.1	3776.1	3728.3	3632.9	3475.4	3235.3	2882.1	2470.2	2422.5	2016.9
10°	4234.1	4232.6	4207.1	4184.8	4098.9	3994.0	3736.3	3348.2	2851.9	2777.2	2228.4
12.5°	4555.4	4566.6	4579.3	4601.6	4565.0	4461.6	4218.2	3795.1	3238.4	3155.7	2470.2
15°	4809.9	4813.1	4860.8	4946.7	4977.0	4922.9	4701.8	4227.8	3620.2	3548.6	2748.5
17.5°	4886.3	4892.7	4973.8	5131.2	5290.3	5320.5	5153.5	4663.6	3995.6	3919.2	3018.9
20°	5046.9	5061.3	5121.7	5260.1	5460.5	5622.7	5557.5	5104.2	4370.9	4270.7	3295.7
22.5°	5552.7	5560.7	5540.0	5557.5	5660.9	5848.6	5888.4	5530.5	4755.9	4649.3	3594.7
25°	6422.8	6426.0	6281.2	6144.4	6066.5	6101.5	6189.0	5923.4	5137.6	5032.6	3873.1
27.5°	7326.3	7337.4	7164.0	6931.8	6653.4	6494.4	6468.9	6282.8	5522.5	5406.4	4148.3
30°	8177.2	8177.2	7994.3	7711.2	7339.0	7028.8	6845.9	6645.5	5934.5	5807.2	4429.8
32.5°	8942.3	8935.9	8702.1	8395.1	8027.7	7687.3	7302.4	7024.0	6392.6	6251.0	4754.3
35°	9573.8	9557.9	9292.2	8998.0	8605.1	8352.2	7922.7	7431.2	6888.8	6747.3	5088.3
37.5°	10050.9	10033.4	9790.1	9478.3	9114.1	8950.2	8590.8	7919.5	7412.1	7283.3	5458.9
40°	10310.2	10275.2	10106.6	9874.4	9569.0	9425.8	9276.3	8525.6	8027.7	7867.1	5896.3
42.5°	10386.6	10345.2	10233.9	10125.7	9941.2	9828.3	9988.9	9209.5	8703.7	8565.3	6395.8
45°	10160.7	10136.8	10127.3	10205.2	10238.6	10270.4	10666.5	9966.6	9449.7	9344.7	7024.0
47.5°	9616.7	9610.3	9694.6	10019.1	10372.2	10707.9	11402.9	10900.3	10416.8	10303.8	7902.0
50°	8611.5	8676.7	8912.1	9481.5	10187.7	10956.0	12091.7	12195.1	11981.9	11816.5	9047.3
52.5°	7040.0	7165.6	7693.7	8559.0	9573.8	10886.0	12409.8	13232.1	13450.0	13278.2	9868.0
55°	5524.1	5641.8	6112.6	7210.1	8563.7	10353.1	12424.1	13590.0	14065.6	13906.5	10423.1
57.5°	4114.9	4223.0	4650.9	5700.7	7189.5	9305.0	12083.7	13788.8	14795.7	14693.9	11299.5
60°	2689.7	2796.3	3182.8	4100.5	5576.6	7778.0	11245.5	13747.5	15789.8	15780.2	12376.4
62.5°	1492.0	1576.3	1856.2	2572.0	3892.2	6023.6	9928.5	13332.3	16752.1	16812.5	13263.9
65°	763.5	817.6	987.8	1414.0	2355.7	4270.7	8196.3	12381.2	17197.5	17350.2	13497.7
67.5°	499.4	516.9	558.3	734.9	1261.3	2686.5	6168.3	10855.8	16570.8	16748.9	12713.6
70°	405.6	419.9	443.8	489.9	650.6	1426.8	4051.2	8670.3	13846.1	13967.0	10124.1
72.5°	297.4	316.5	362.7	392.9	469.2	782.6	2107.5	5691.1	9508.5	9721.7	6362.4
75°	219.5	230.6	268.8	310.2	383.3	494.7	806.4	2991.9	4910.2	4786.1	2672.2
77.5°	132.0	140.0	171.8	198.8	273.6	308.6	281.5	1105.5	1493.6	1404.5	645.8
80°	65.2	73.2	112.9	149.5	175.0	124.1	117.7	308.6	332.4	332.4	162.2
82.5°	22.3	28.6	60.4	98.6	85.9	47.7	55.7	79.5	89.1	93.8	47.7
85°	0.0	0.0	14.3	28.6	12.7	6.4	14.3	17.5	22.3	23.9	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	6.4
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°	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2	1584.2
2.5°	1625.6	1550.8	1437.9	1336.1	1258.2	1185.0	1129.3	1084.8	1076.8	1051.4	1054.6
5°	1698.7	1563.5	1355.2	1194.5	1081.6	1005.3	941.6	893.9	873.2	852.6	836.7
7.5°	1811.7	1616.0	1323.4	1127.7	995.7	878.0	779.4	699.9	661.7	637.8	621.9
10°	1950.1	1689.2	1325.0	1088.0	892.3	712.6	577.4	489.9	448.5	435.8	434.2
12.5°	2115.5	1781.5	1337.7	1022.7	742.8	529.7	427.9	388.1	375.4	364.2	364.2
15°	2290.4	1884.8	1337.7	903.5	566.2	413.6	370.6	345.2	329.3	322.9	319.7
17.5°	2475.0	1981.9	1305.9	739.6	434.2	364.2	329.3	305.4	292.7	283.1	279.9
20°	2672.2	2074.1	1226.3	566.2	372.2	326.1	292.7	268.8	256.1	246.5	246.5
22.5°	2872.6	2160.0	1097.5	435.8	329.3	289.5	257.7	235.4	222.7	213.1	213.1
25°	3058.7	2217.3	932.1	359.5	297.4	257.7	229.0	206.8	192.5	186.1	182.9
27.5°	3232.1	2253.9	749.2	316.5	267.2	230.6	200.4	179.7	168.6	163.8	160.6
30°	3411.8	2263.4	572.6	287.9	241.8	203.6	175.0	159.1	149.5	143.2	143.2
32.5°	3586.8	2252.3	437.4	264.0	219.5	179.7	155.9	141.6	133.6	128.8	127.2
35°	3764.9	2201.4	354.7	243.4	197.2	157.5	138.4	127.2	122.5	116.1	116.1
37.5°	3959.0	2133.0	308.6	222.7	175.0	141.6	124.1	116.1	109.8	105.0	103.4
40°	4200.7	2053.5	283.1	205.2	154.3	127.2	111.3	103.4	98.6	93.8	92.3
42.5°	4487.1	1975.5	270.4	186.1	138.4	112.9	100.2	90.7	85.9	79.5	77.9
45°	4892.7	1958.0	256.1	165.4	124.1	101.8	87.5	77.9	71.6	66.8	65.2
47.5°	5544.8	2007.3	232.2	143.2	109.8	89.1	74.8	66.8	58.9	54.1	50.9
50°	6192.2	1994.6	208.4	124.1	97.0	76.3	63.6	55.7	47.7	42.9	41.4
52.5°	6545.3	1934.2	186.1	109.8	84.3	65.2	54.1	44.5	39.8	35.0	33.4
55°	6865.0	1910.3	163.8	95.4	71.6	57.3	44.5	36.6	33.4	28.6	27.0
57.5°	7491.7	1966.0	144.7	82.7	62.0	49.3	38.2	30.2	27.0	22.3	20.7
60°	8147.0	1972.3	124.1	71.6	54.1	41.4	30.2	23.9	20.7	15.9	14.3
62.5°	8489.0	1811.7	101.8	60.4	44.5	35.0	25.4	19.1	15.9	9.5	9.5
65°	8202.7	1464.9	85.9	49.3	35.0	27.0	19.1	14.3	9.5	4.8	1.6
67.5°	7259.5	1041.8	71.6	39.8	25.4	19.1	14.3	9.5	1.6	0.0	0.0
70°	5315.8	594.9	55.7	28.6	19.1	12.7	9.5	4.8	0.0	0.0	0.0
72.5°	3267.1	318.1	41.4	19.1	14.3	9.5	8.0	3.2	0.0	0.0	0.0
75°	1239.1	152.7	25.4	12.7	11.1	8.0	4.8	1.6	0.0	0.0	0.0
77.5°	335.6	74.8	14.3	9.5	8.0	4.8	3.2	0.0	0.0	0.0	0.0
80°	87.5	35.0	9.5	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	15.9	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.7	6.4	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.6	1.6	1.6	1.6	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)