

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: P636730

Luminaire Tested: GWS-SA4B-735-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10693.5 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

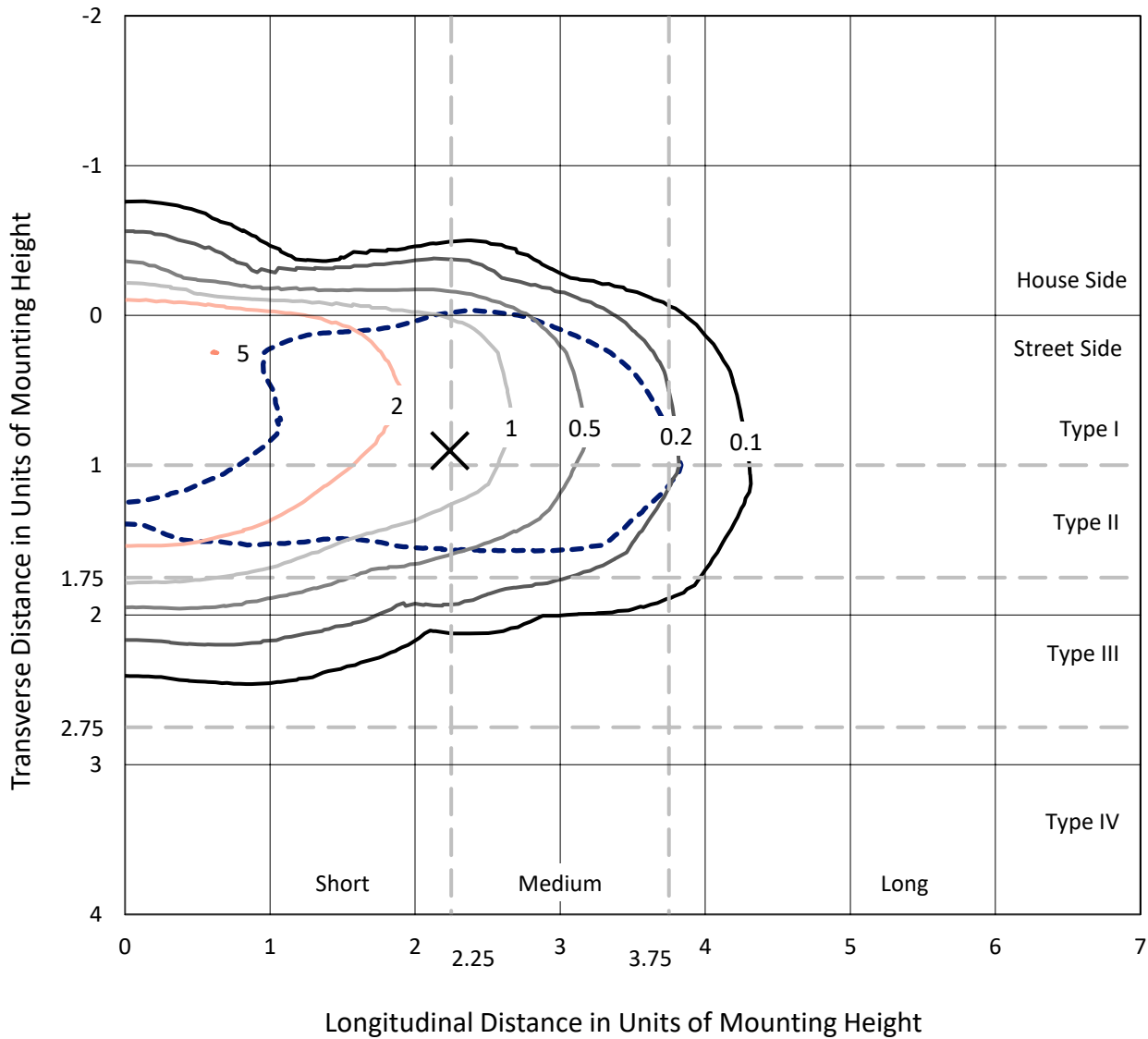
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P636730  
 CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

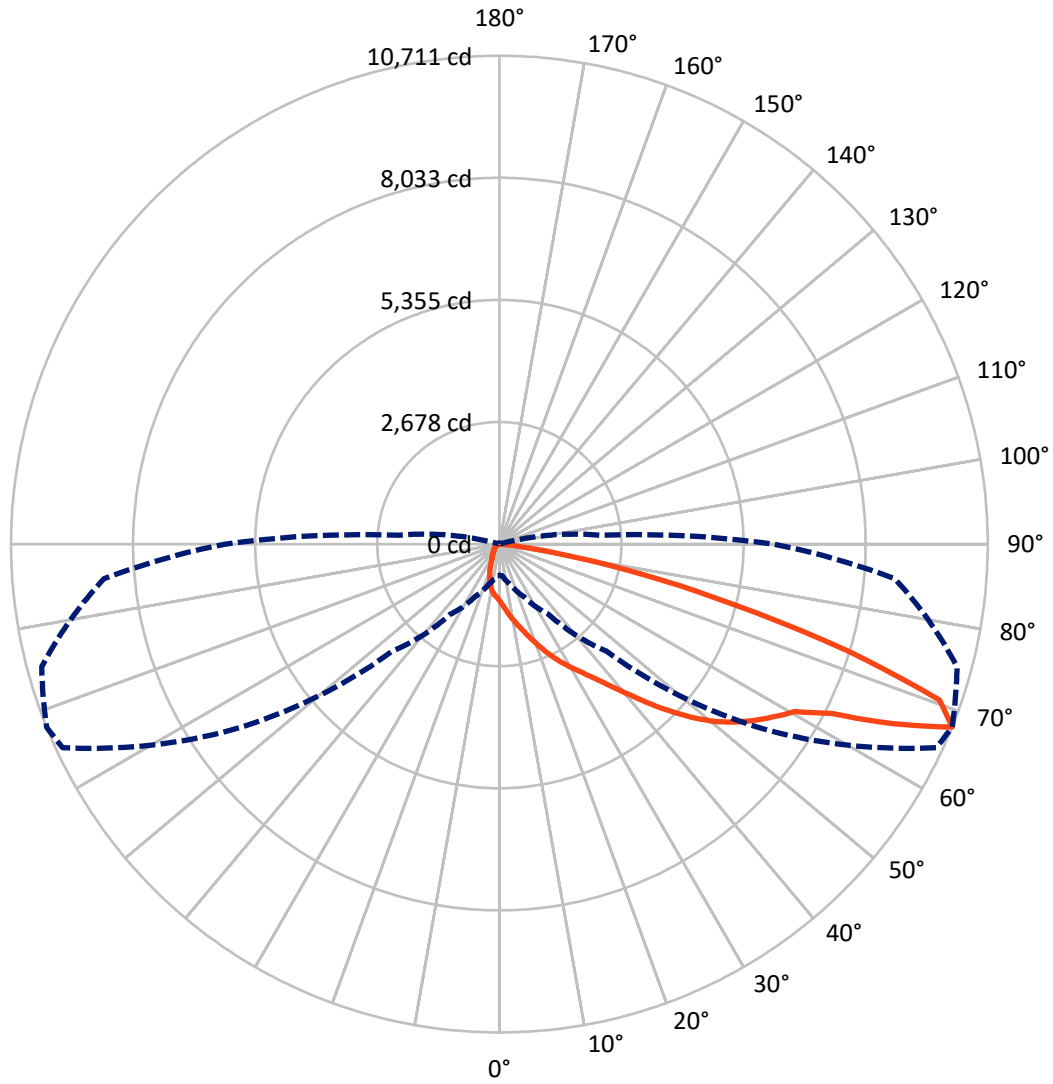
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

REPORT NUMBER: P636730  
CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P636730  
 CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

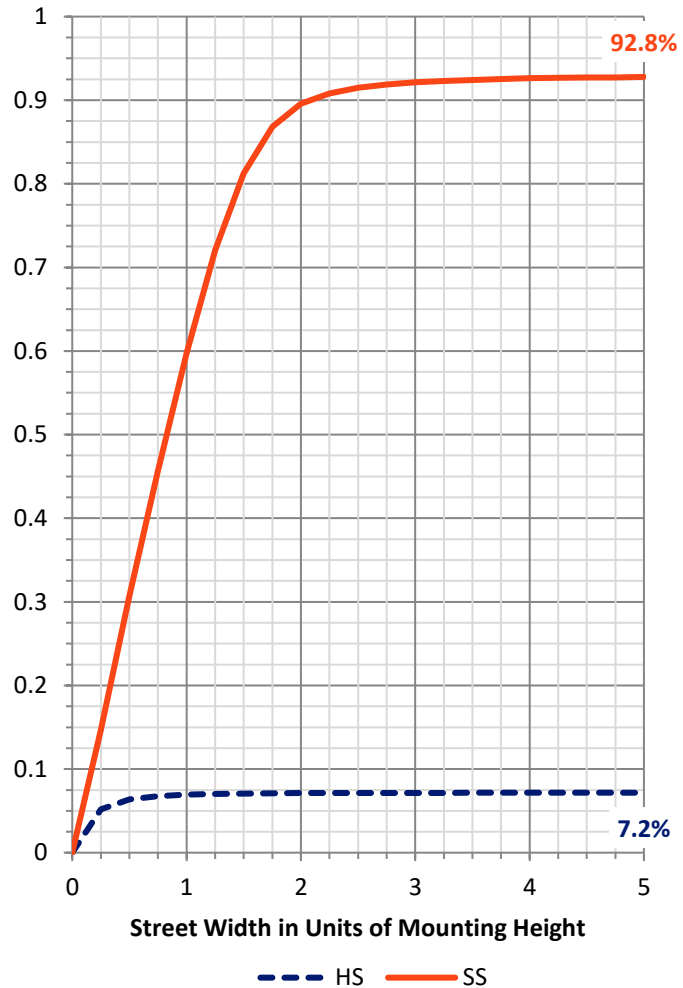
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	772.2	0.0	772.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9921.3	0.0	9921.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	10693.5	0.0	10693.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.1
10°-20°	348.5	3.3
20°-30°	599.0	5.6
30°-40°	1041.4	9.7
40°-50°	1817.1	17.0
50°-60°	2740.7	25.6
60°-70°	2748.2	25.7
70°-80°	1212.5	11.3
80°-90°	64.8	0.6
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°	10693.5	100.0
0°-180°	10693.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P636730

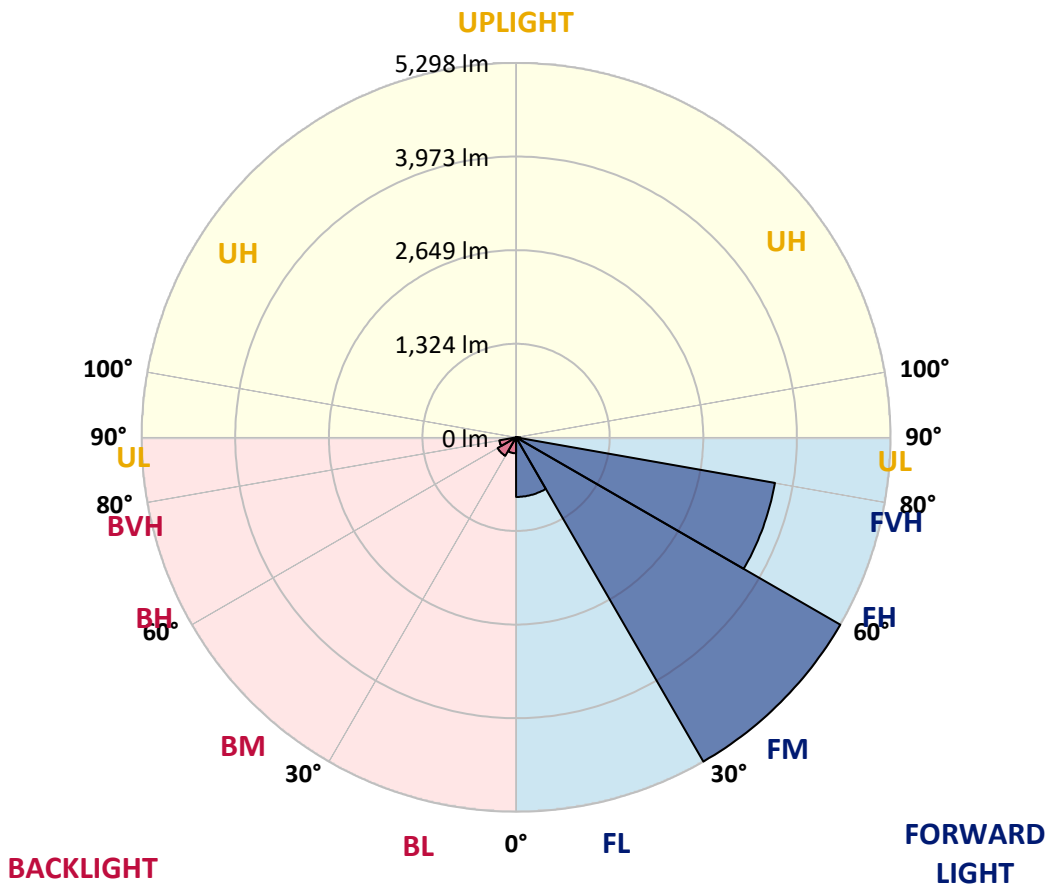
CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.0	7.9			
FM (30°-60°)	5297.5	49.5			
FH (60°-80°)	3719.7	34.8			G2/5000
FVH (80°-90°)	61.1	0.6			G1/100
BL (0°-30°)	225.9	2.1	B1/500		
BM (30°-60°)	301.6	2.8	B1/1000		
BH (60°-80°)	241.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P636730

CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5
2.5°	1449.1	1458.3	1449.1	1451.2	1424.6	1412.3	1385.7	1348.8	1339.6	1316.1	1280.3
5°	1626.2	1634.4	1625.2	1623.1	1592.4	1569.9	1525.9	1462.4	1444.0	1398.0	1327.3
7.5°	1722.4	1727.5	1730.6	1735.7	1724.4	1706.0	1666.1	1587.3	1567.8	1493.1	1393.9
10°	1732.6	1736.7	1752.1	1782.8	1805.3	1816.5	1794.0	1721.4	1690.7	1618.0	1475.7
12.5°	1704.0	1710.1	1734.7	1785.8	1848.3	1905.6	1919.9	1856.4	1828.8	1735.7	1571.9
15°	1666.1	1671.2	1705.0	1774.6	1868.7	1974.1	2033.5	2005.9	1975.2	1877.9	1678.4
17.5°	1607.8	1614.9	1662.0	1756.2	1877.9	2028.4	2156.3	2165.5	2144.0	2038.6	1796.1
20°	1575.0	1580.1	1622.1	1719.3	1871.8	2068.3	2270.9	2357.9	2334.4	2223.8	1931.2
22.5°	1602.6	1606.7	1634.4	1710.1	1851.3	2090.8	2377.4	2550.3	2537.0	2422.4	2073.4
25°	1748.0	1761.3	1744.9	1758.2	1860.5	2103.1	2463.3	2742.7	2745.8	2630.1	2220.8
27.5°	2042.7	2025.3	1986.4	1919.9	1932.2	2135.8	2537.0	2923.8	2950.5	2832.8	2351.8
30°	2342.6	2332.3	2308.8	2205.4	2119.5	2208.5	2599.4	3109.1	3151.0	3032.3	2468.4
32.5°	2679.3	2689.5	2647.5	2523.7	2377.4	2355.9	2663.9	3285.1	3363.9	3258.5	2605.6
35°	3081.5	3084.5	3001.6	2864.5	2698.7	2599.4	2779.5	3479.6	3624.9	3547.1	2788.8
37.5°	3473.4	3491.8	3446.8	3230.9	3083.5	2902.4	2970.9	3729.3	3933.9	3903.2	3019.0
40°	3820.3	3849.0	3834.7	3625.9	3432.5	3280.0	3267.7	4022.0	4307.5	4342.3	3323.0
42.5°	4096.7	4115.1	4126.3	3977.9	3807.0	3721.1	3634.1	4361.7	4748.6	4890.8	3695.5
45°	4388.3	4394.5	4418.0	4317.7	4168.3	4175.5	4067.0	4774.1	5213.2	5498.7	4123.3
47.5°	4759.8	4780.3	4769.0	4663.6	4528.5	4609.4	4514.2	5198.9	5671.7	6147.5	4561.3
50°	5212.2	5233.7	5223.4	5100.6	4950.2	4983.9	4924.6	5611.3	6113.8	6759.5	4925.6
52.5°	5445.5	5462.9	5589.8	5645.1	5566.3	5351.3	5274.6	6064.7	6487.3	7263.1	5260.3
55°	5332.9	5345.2	5621.5	5854.9	6143.5	5928.5	5626.6	6414.7	6816.9	7656.0	5508.9
57.5°	4866.3	4932.8	5308.4	5703.4	6310.3	6498.6	6197.7	6795.4	7134.1	7929.3	5753.5
60°	3909.4	3906.3	4444.6	5153.8	5984.8	6655.2	7004.1	7310.1	7452.4	8139.1	6081.0
62.5°	2160.4	2179.8	2896.2	3830.6	5080.1	6249.9	7609.0	8199.5	8178.0	8505.5	6593.8
65°	1075.6	1114.5	1503.4	2194.2	3380.3	5165.1	7713.3	9556.5	9495.1	9368.2	7653.0
67.5°	682.6	698.0	912.9	1275.2	1879.0	3319.9	7063.5	10568.6	10710.9	10391.6	8704.0
70°	442.1	467.7	634.5	871.9	1133.9	1711.1	5174.3	9912.6	10239.1	10279.0	8049.0
72.5°	240.5	258.9	405.3	622.2	818.7	855.6	2906.4	7439.1	7964.1	8719.3	6297.0
75°	137.1	150.4	222.1	422.7	600.7	520.9	1288.5	4979.9	5314.5	6231.5	4512.2
77.5°	82.9	94.2	124.9	205.7	376.6	348.0	487.1	3031.3	3244.2	3718.0	2368.1
80°	37.9	45.0	78.8	113.6	205.7	164.8	186.3	1413.3	1459.4	1525.9	783.9
82.5°	17.4	20.5	35.8	67.5	116.7	95.2	71.6	326.5	459.5	434.9	199.6
85°	2.0	2.0	13.3	27.6	32.7	24.6	29.7	73.7	93.1	131.0	57.3
87.5°	0.0	0.0	1.0	1.0	2.0	3.1	6.1	9.2	13.3	21.5	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636730

CATALOG NUMBER: GWS-SA4B-735-U-T2-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5
2.5°	1263.9	1235.2	1209.7	1171.8	1146.2	1117.6	1098.1	1074.6	1065.4	1058.2	1048.0
5°	1292.6	1246.5	1184.1	1114.5	1057.2	1002.9	952.8	920.0	891.4	887.3	873.0
7.5°	1339.6	1271.1	1165.6	1052.1	954.8	864.8	794.2	736.8	708.2	699.0	682.6
10°	1402.1	1307.9	1138.0	964.0	823.8	716.4	636.6	572.1	527.0	510.7	498.4
12.5°	1471.6	1341.7	1094.0	855.6	695.9	573.1	471.8	403.2	374.6	364.3	355.1
15°	1551.5	1373.4	1024.4	747.1	571.1	421.6	350.0	320.3	308.0	305.0	301.9
17.5°	1628.2	1393.9	941.5	634.5	439.0	327.5	293.7	282.5	279.4	276.3	274.3
20°	1715.2	1408.2	844.3	528.1	340.8	277.3	261.0	252.8	246.6	240.5	239.5
22.5°	1804.2	1408.2	738.9	423.7	285.5	248.7	230.3	214.9	203.7	197.5	195.5
25°	1889.2	1388.8	634.5	338.7	251.8	221.1	197.5	180.1	164.8	157.6	155.6
27.5°	1949.6	1338.6	543.4	286.6	228.2	196.5	167.8	148.4	136.1	128.9	127.9
30°	1987.4	1263.9	459.5	255.8	207.7	170.9	142.3	125.9	116.7	111.6	109.5
32.5°	2016.1	1171.8	384.8	234.4	188.3	148.4	123.8	110.5	102.3	98.2	97.2
35°	2073.4	1084.8	329.5	214.9	167.8	130.0	108.5	98.2	92.1	87.0	86.0
37.5°	2153.2	1012.1	285.5	197.5	148.4	115.6	98.2	89.0	83.9	78.8	77.8
40°	2270.9	966.1	252.8	180.1	131.0	104.4	90.1	81.9	74.7	69.6	68.6
42.5°	2452.1	944.6	231.3	162.7	115.6	94.2	82.9	72.7	65.5	60.4	59.4
45°	2668.0	955.9	212.9	145.3	105.4	87.0	73.7	63.5	56.3	51.2	50.1
47.5°	2899.3	995.8	197.5	128.9	95.2	79.8	65.5	54.2	48.1	43.0	42.0
50°	3140.8	1061.3	184.2	113.6	87.0	71.6	56.3	47.1	40.9	36.8	35.8
52.5°	3350.6	1150.3	170.9	102.3	79.8	63.5	49.1	40.9	34.8	30.7	29.7
55°	3551.2	1234.2	160.7	92.1	71.6	55.3	43.0	34.8	29.7	25.6	24.6
57.5°	3769.2	1323.3	148.4	82.9	64.5	49.1	37.9	29.7	25.6	21.5	20.5
60°	4086.4	1455.3	130.0	75.7	56.3	43.0	32.7	26.6	22.5	17.4	16.4
62.5°	4543.9	1695.8	109.5	65.5	48.1	36.8	27.6	22.5	18.4	14.3	12.3
65°	5399.4	2105.1	90.1	54.2	38.9	30.7	23.5	18.4	14.3	10.2	9.2
67.5°	6015.5	2211.6	72.7	44.0	31.7	23.5	19.4	14.3	10.2	7.2	6.1
70°	5259.2	1588.3	56.3	35.8	26.6	18.4	15.4	11.3	7.2	5.1	4.1
72.5°	3962.6	1037.7	42.0	27.6	20.5	15.4	11.3	9.2	6.1	4.1	3.1
75°	2792.9	599.7	30.7	20.5	14.3	11.3	9.2	7.2	5.1	3.1	3.1
77.5°	1431.7	247.7	21.5	14.3	10.2	7.2	6.1	4.1	4.1	3.1	2.0
80°	434.9	81.9	12.3	9.2	7.2	5.1	3.1	3.1	3.1	2.0	1.0
82.5°	99.3	26.6	7.2	7.2	5.1	4.1	3.1	1.0	1.0	0.0	0.0
85°	25.6	8.2	6.1	5.1	5.1	4.1	2.0	1.0	0.0	0.0	0.0
87.5°	9.2	5.1	5.1	5.1	4.1	3.1	2.0	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)