

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: P638048

Luminaire Tested: GWS-SA4E-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13389.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

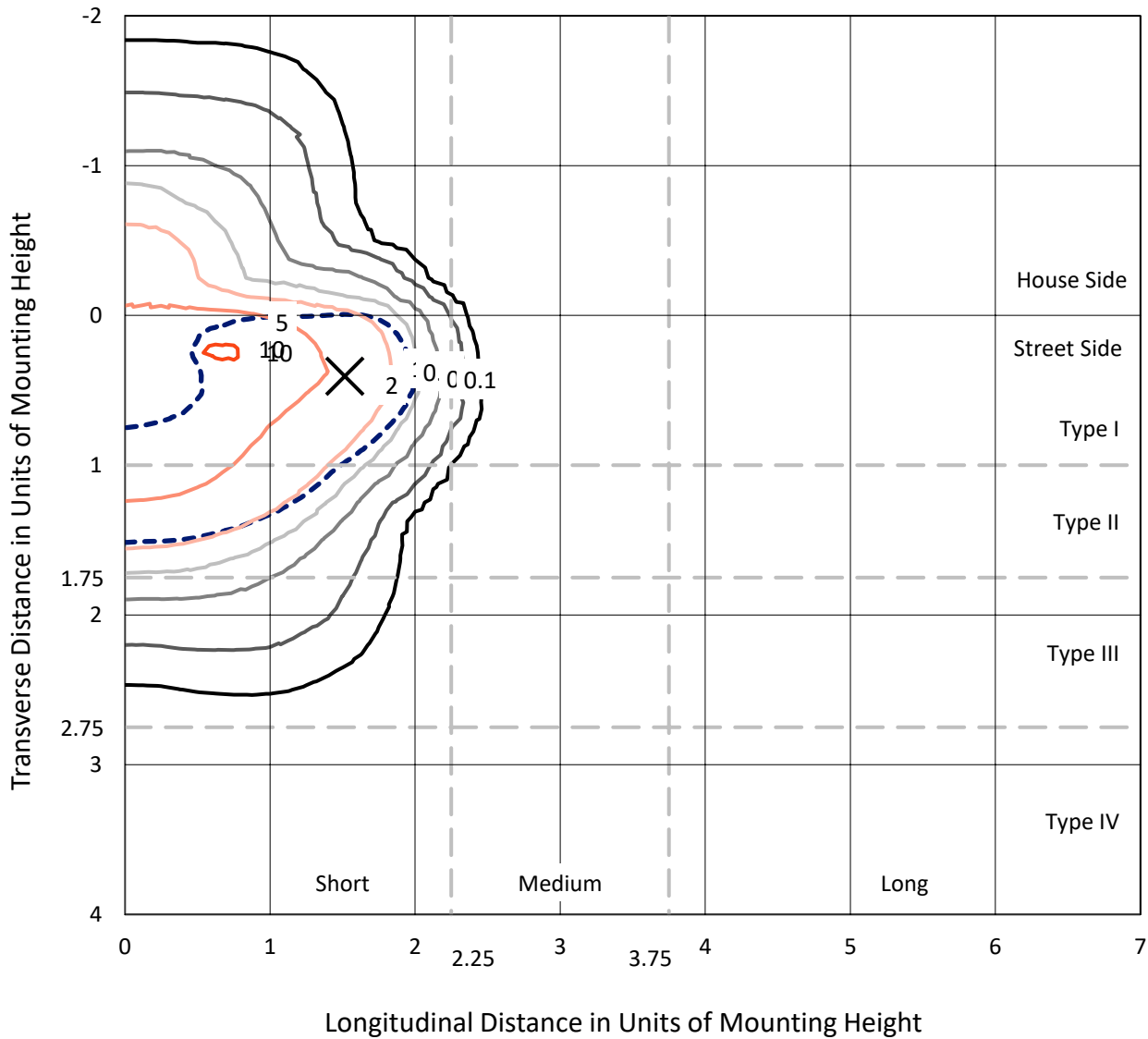
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638048
 CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

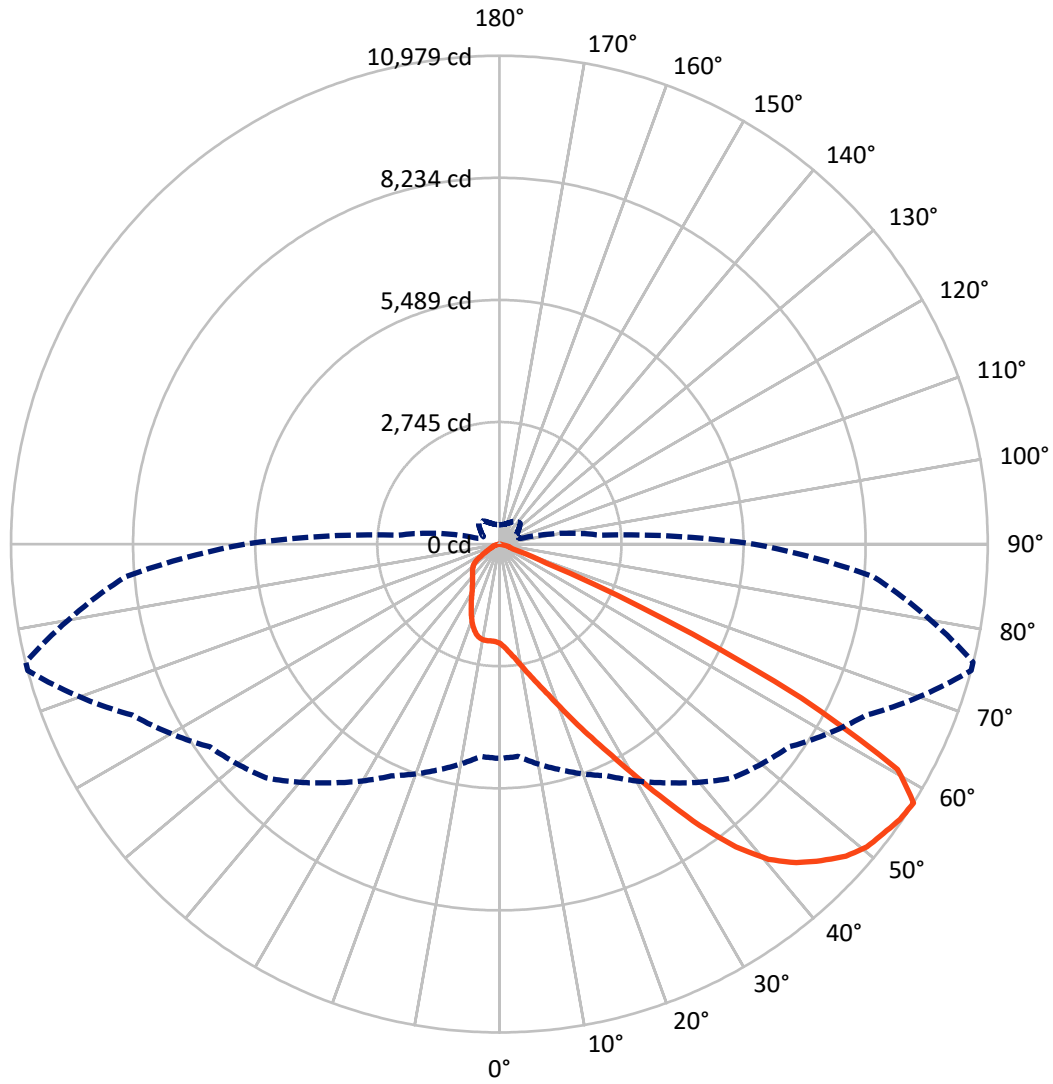
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

REPORT NUMBER: P638048
CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638048

CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

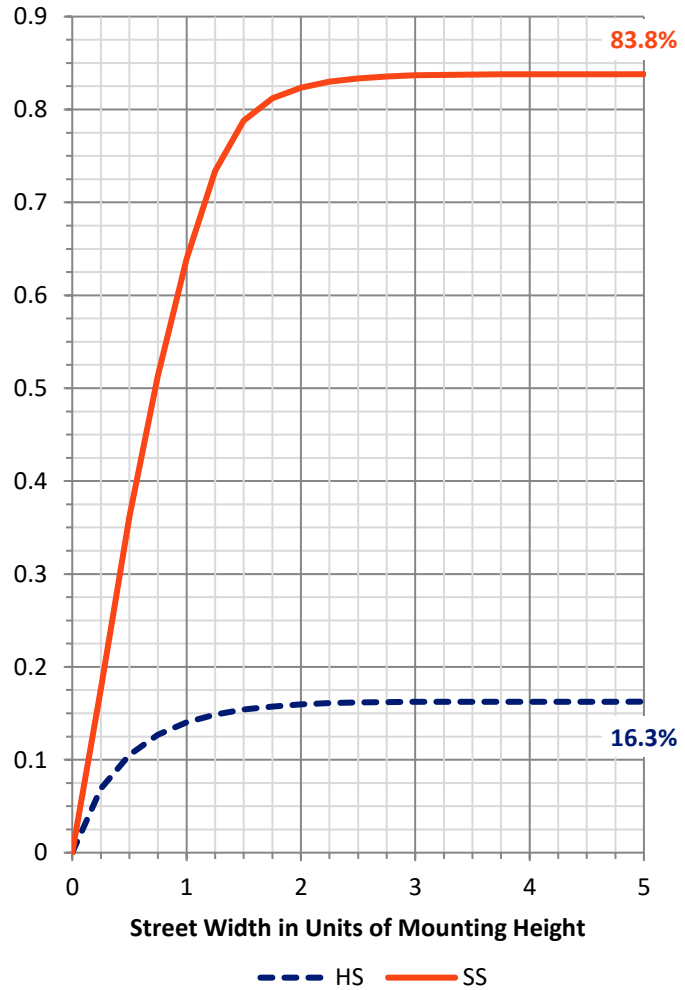
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2187.2	0.0	2187.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11202.6	0.0	11202.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	13389.8	0.0	13389.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.7
10°-20°	738.2	5.5
20°-30°	1351.8	10.1
30°-40°	2242.8	16.8
40°-50°	3425.3	25.6
50°-60°	3848.9	28.7
60°-70°	1419.7	10.6
70°-80°	135.7	1.0
80°-90°	0.1	0.0
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°	13389.8	100.0
0°-180°	13389.8	100.0

Coefficient of Utilization



REPORT NUMBER: P638048

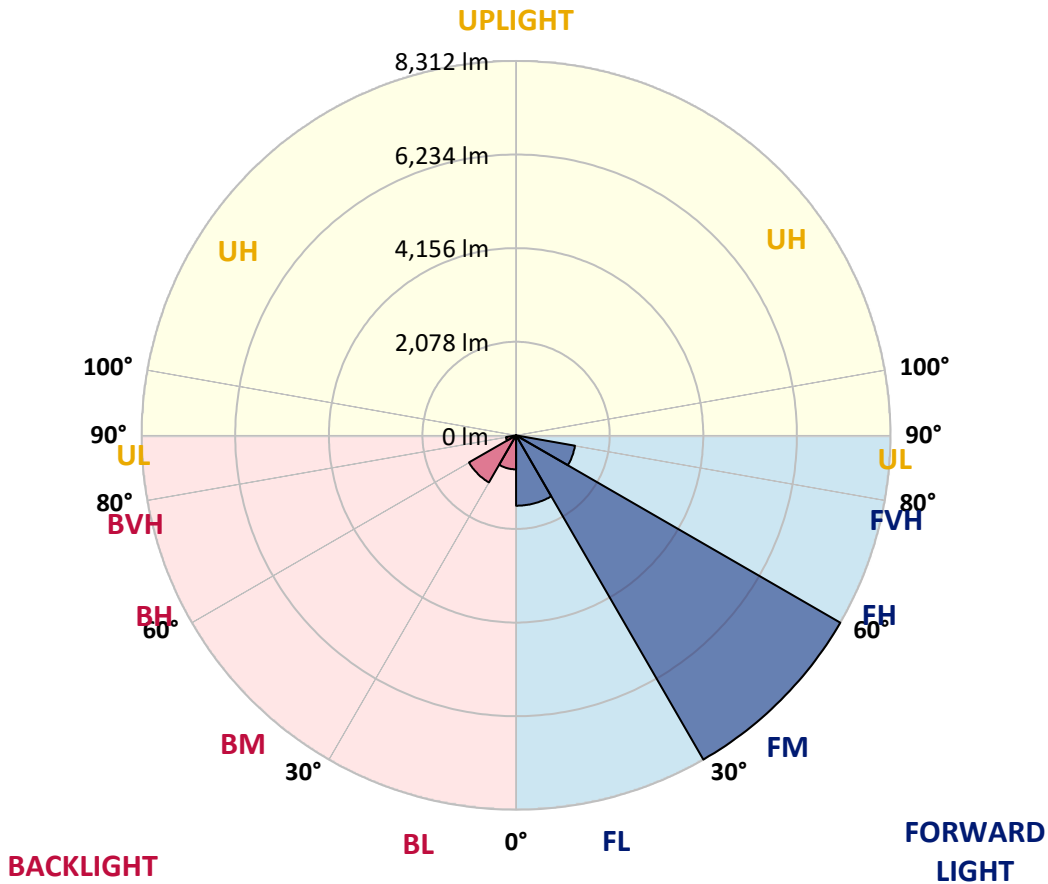
CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.6	11.7			
FM (30°-60°)	8311.8	62.1			
FH (60°-80°)	1328.2	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	754.7	5.6	B2/1000		
BM (30°-60°)	1205.3	9.0	B2/2500		
BH (60°-80°)	227.1	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1

Type II Short





REPORT NUMBER: P638048

CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2
2.5°	2495.0	2520.9	2512.8	2496.6	2486.9	2453.0	2432.0	2370.6	2327.0	2322.1	2281.7
5°	2810.1	2805.3	2798.8	2779.4	2763.3	2709.9	2646.9	2543.5	2451.4	2440.1	2354.4
7.5°	2983.0	2986.3	2989.5	2986.3	2974.9	2934.6	2865.1	2743.9	2603.3	2593.6	2457.8
10°	3054.1	3060.6	3076.8	3107.5	3134.9	3131.7	3091.3	2966.9	2794.0	2777.8	2595.2
12.5°	3088.1	3096.1	3122.0	3180.2	3254.5	3312.7	3319.1	3207.6	3017.0	2991.1	2758.4
15°	3134.9	3143.0	3175.3	3251.3	3359.5	3474.3	3548.6	3477.5	3264.2	3236.7	2937.8
17.5°	3155.9	3167.2	3214.1	3314.3	3454.9	3631.0	3799.1	3792.6	3556.7	3535.7	3146.2
20°	3196.3	3204.4	3246.4	3354.7	3524.4	3778.1	4060.9	4162.7	3913.8	3883.1	3398.3
22.5°	3324.0	3327.2	3346.6	3414.5	3572.8	3884.7	4327.5	4594.1	4335.6	4295.2	3681.1
25°	3532.4	3530.8	3538.9	3550.2	3666.6	3993.0	4584.4	5080.5	4818.7	4775.1	4001.1
27.5°	3797.5	3797.5	3816.9	3784.5	3831.4	4127.1	4838.1	5639.6	5381.1	5319.7	4351.7
30°	4109.3	4107.7	4153.0	4101.3	4115.8	4338.8	5111.2	6248.8	6059.8	5983.8	4755.7
32.5°	4532.7	4523.0	4574.7	4503.6	4455.2	4658.8	5444.1	6885.5	6872.6	6756.3	5263.1
35°	5067.6	5051.4	5067.6	4998.1	4910.8	5106.4	5880.4	7520.6	7774.3	7651.5	5867.5
37.5°	5599.2	5651.0	5668.7	5549.1	5478.0	5673.6	6405.6	8089.4	8635.6	8507.9	6496.1
40°	6226.2	6210.1	6271.5	6137.3	6092.1	6308.6	6919.5	8512.8	9317.5	9196.3	7055.2
42.5°	6688.4	6717.5	6793.4	6719.1	6683.5	6887.1	7350.9	8760.0	9791.0	9671.4	7454.3
45°	7242.7	7263.7	7292.7	7231.3	7194.2	7394.6	7662.8	8868.3	10151.3	10022.1	7722.6
47.5°	7842.2	7858.3	7858.3	7732.3	7612.7	7695.1	7871.3	8929.7	10482.6	10358.2	7921.3
50°	8272.0	8280.1	8351.2	8262.3	8002.1	7874.5	7966.6	8989.5	10702.4	10586.0	7986.0
52.5°	7890.6	7881.0	8115.3	8299.5	8369.0	8115.3	8131.4	9076.7	10809.0	10708.8	8037.7
55°	6644.8	6628.6	6958.2	7405.9	8018.3	8343.1	8330.2	9128.5	10927.0	10865.6	8225.1
57.5°	4817.1	4789.7	5248.6	5746.3	6549.4	7430.1	7947.2	9099.4	10978.7	10973.9	8443.3
60°	2895.8	2873.1	3306.2	3829.8	4450.3	5335.8	6193.9	8150.8	10287.1	10296.8	7876.1
62.5°	1782.4	1803.4	2194.4	2461.1	2692.2	2958.8	3454.9	5482.9	7620.8	7683.8	5534.6
65°	1199.0	1215.2	1577.2	1913.3	1913.3	1564.2	1342.8	2621.1	4065.7	3959.1	2617.8
67.5°	804.7	822.5	1108.5	1501.2	1557.8	1090.8	544.6	782.1	1132.8	1098.8	648.0
70°	473.5	492.9	738.5	1029.4	1134.4	759.5	363.6	331.3	321.6	311.9	252.1
72.5°	211.7	219.8	376.5	523.6	478.3	320.0	256.9	265.0	250.5	245.6	205.2
75°	64.6	67.9	97.0	113.1	114.7	114.7	155.1	208.5	197.1	198.8	158.4
77.5°	16.2	16.2	25.9	24.2	12.9	11.3	29.1	46.9	48.5	43.6	32.3
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P638048

CATALOG NUMBER: GWS-SA4E-722-U-T2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2
2.5°	2263.9	2221.9	2194.4	2155.7	2128.2	2099.1	2073.3	2052.2	2040.9	2037.7	2039.3
5°	2315.6	2249.4	2184.8	2110.4	2058.7	2010.2	1971.4	1940.7	1926.2	1921.4	1921.4
7.5°	2394.8	2302.7	2188.0	2071.6	1984.4	1908.4	1863.2	1829.2	1816.3	1813.1	1803.4
10°	2498.2	2372.2	2183.1	2002.2	1879.3	1800.2	1767.8	1758.1	1763.0	1764.6	1763.0
12.5°	2622.7	2444.9	2152.4	1900.3	1767.8	1719.4	1722.6	1748.4	1777.5	1792.1	1795.3
15°	2755.2	2511.2	2082.9	1779.2	1672.5	1670.9	1717.7	1777.5	1834.1	1858.3	1864.8
17.5°	2903.8	2564.5	1976.3	1649.9	1590.1	1636.9	1721.0	1813.1	1889.0	1929.4	1937.5
20°	3067.1	2608.1	1840.6	1528.7	1517.4	1601.4	1717.7	1830.9	1924.6	1969.8	1977.9
22.5°	3236.7	2638.8	1683.8	1417.2	1451.1	1561.0	1687.0	1796.9	1885.8	1937.5	1944.0
25°	3430.6	2642.1	1523.8	1323.5	1389.7	1506.1	1612.7	1703.2	1777.5	1822.8	1827.6
27.5°	3600.3	2603.3	1381.6	1247.5	1333.2	1438.2	1509.3	1559.4	1611.1	1636.9	1638.6
30°	3795.8	2535.4	1247.5	1186.1	1275.0	1354.2	1389.7	1401.0	1405.9	1410.7	1404.3
32.5°	4028.5	2453.0	1147.3	1126.3	1208.7	1262.1	1271.7	1249.1	1221.7	1182.9	1173.2
35°	4314.6	2378.7	1064.9	1068.1	1136.0	1168.3	1160.2	1111.8	1058.4	1011.6	1003.5
37.5°	4624.8	2315.6	1001.9	1011.6	1056.8	1079.4	1055.2	1001.9	977.6	937.2	938.9
40°	4899.5	2263.9	945.3	955.0	976.0	997.0	958.3	922.7	967.9	964.7	967.9
42.5°	5095.1	2220.3	896.8	892.0	906.5	921.1	892.0	874.2	950.2	929.2	940.5
45°	5209.8	2179.9	856.4	827.4	850.0	875.8	856.4	833.8	859.7	762.7	754.6
47.5°	5287.4	2157.3	820.9	764.3	804.7	850.0	809.6	754.6	717.5	633.4	627.0
50°	5295.4	2146.0	778.9	699.7	751.4	799.9	753.0	677.1	623.8	586.6	581.7
52.5°	5337.5	2168.6	720.7	617.3	673.8	751.4	719.1	643.1	570.4	538.1	531.6
55°	5524.9	2263.9	623.8	504.2	586.6	714.2	691.6	573.7	504.2	484.8	479.9
57.5°	5718.8	2283.3	491.2	399.1	510.6	660.9	631.8	528.4	460.5	437.9	433.1
60°	5229.2	1881.0	368.4	329.7	450.8	610.8	585.0	500.9	421.8	394.3	389.4
62.5°	3435.5	1016.4	292.5	279.6	379.7	517.1	533.3	452.5	376.5	347.4	345.8
65°	1583.6	471.9	224.6	221.4	297.3	412.1	458.9	395.9	318.3	292.5	292.5
67.5°	431.5	234.3	176.1	163.2	202.0	276.3	334.5	295.7	226.2	195.5	193.9
70°	214.9	189.1	158.4	140.6	145.4	171.3	197.1	164.8	114.7	93.7	92.1
72.5°	176.1	155.1	134.1	119.6	109.9	105.0	101.8	82.4	53.3	40.4	38.8
75°	130.9	111.5	95.3	77.6	66.3	61.4	54.9	40.4	22.6	12.9	11.3
77.5°	29.1	27.5	25.9	19.4	17.8	14.5	11.3	8.1	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)