

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: STREETWORKS

Report Number: P385954

Luminaire Tested: GAW-SA1C-735-U-T4FT-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1C-735-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5038.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

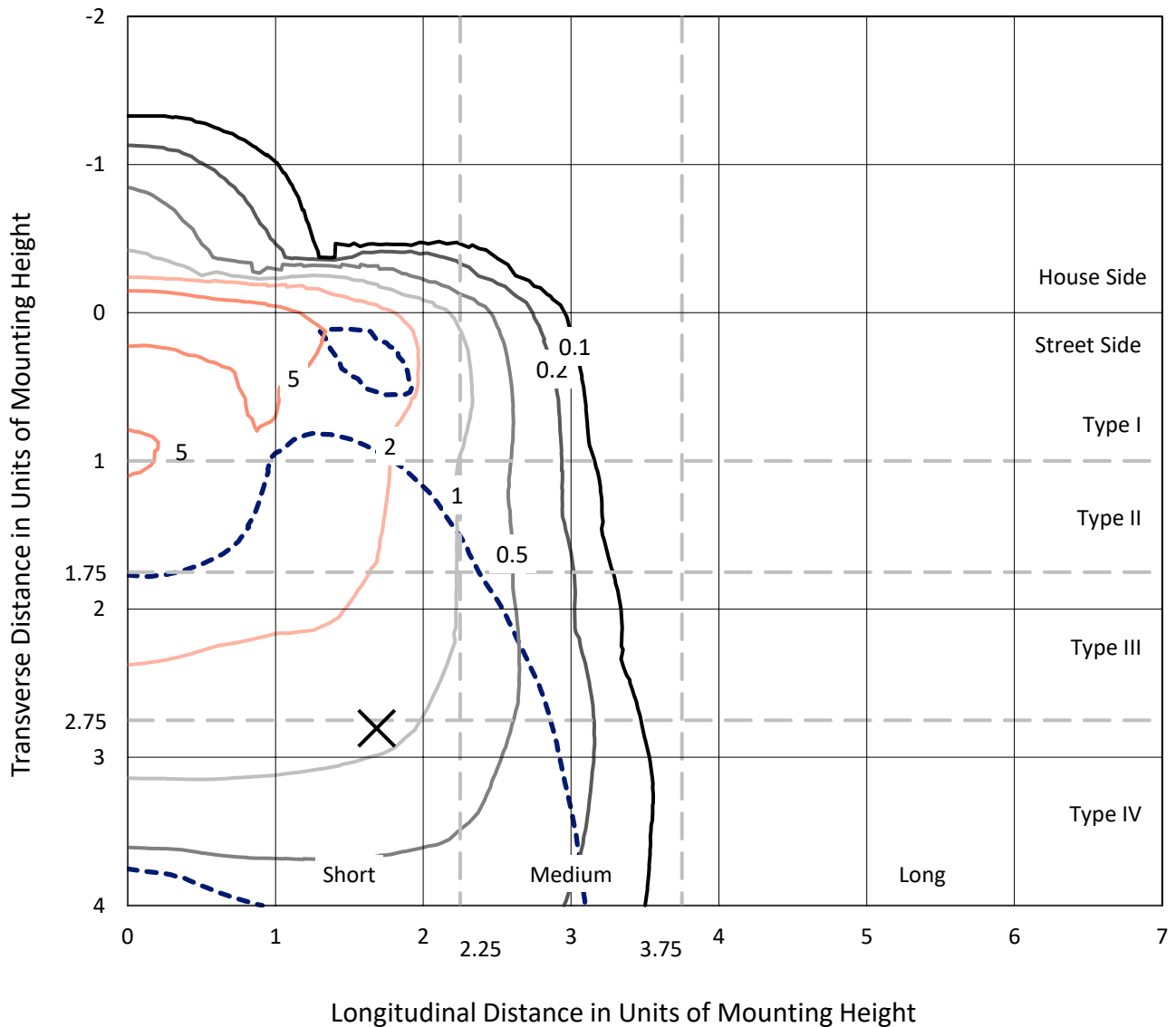
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

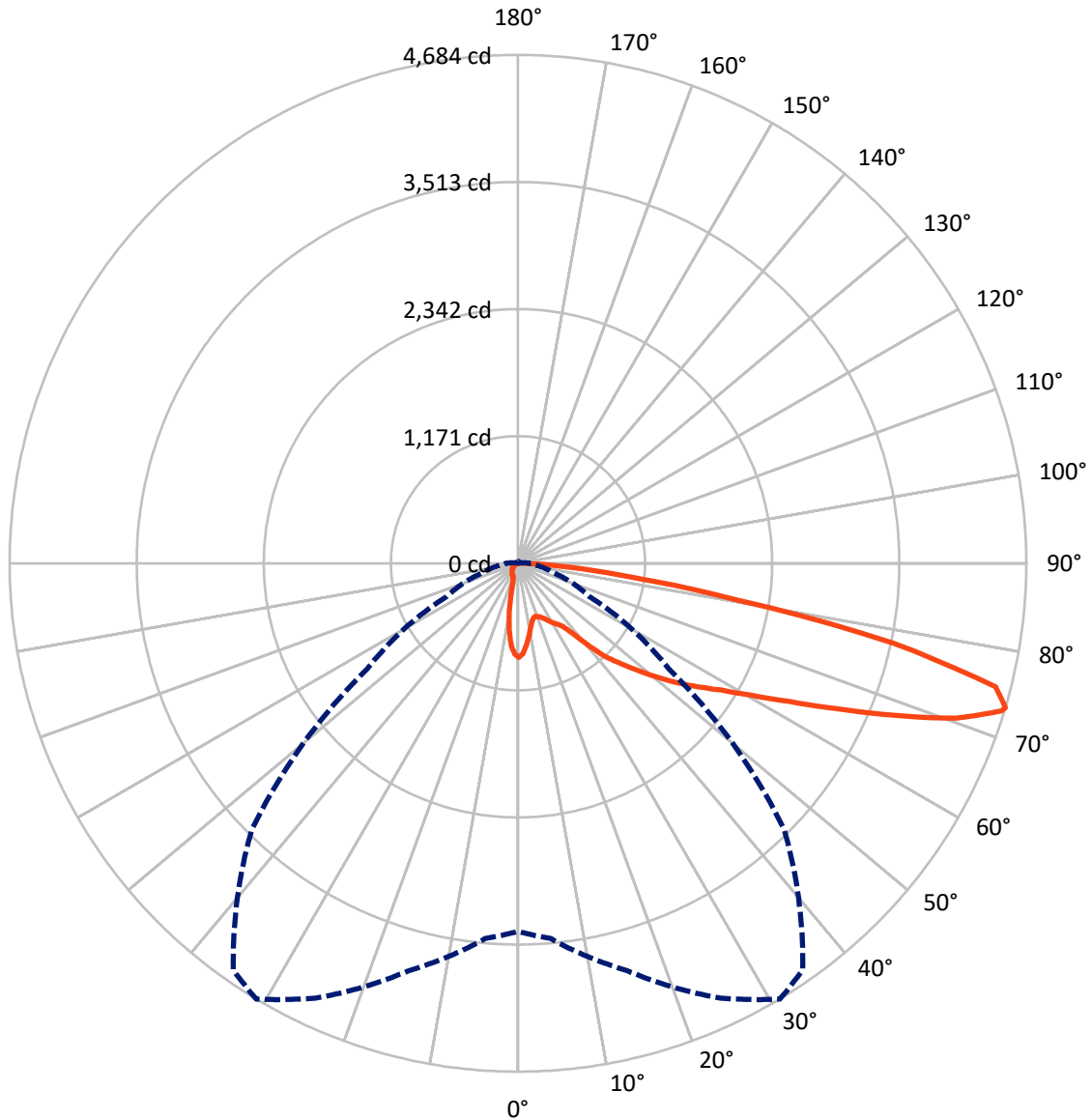
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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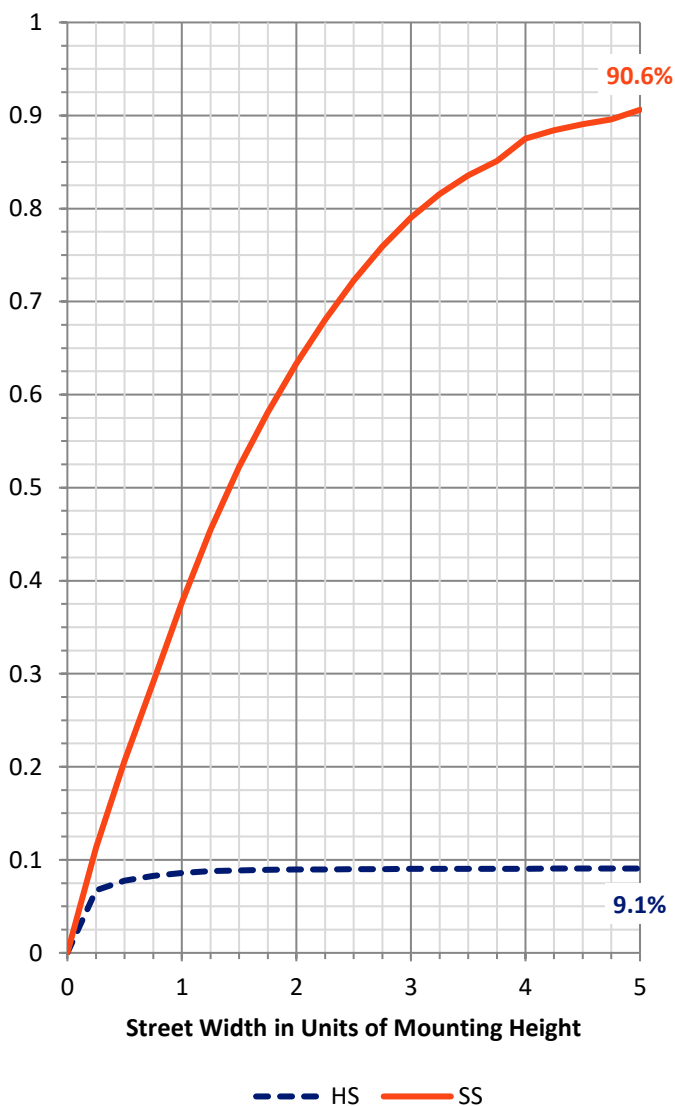
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.3	0.0	459.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4579.6	0.0	4579.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	5038.9	0.0	5038.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.4
10°-20°	156.1	3.1
20°-30°	233.8	4.6
30°-40°	372.1	7.4
40°-50°	664.4	13.2
50°-60°	1030.9	20.5
60°-70°	1370.5	27.2
70°-80°	1030.9	20.5
80°-90°	108.3	2.1
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°	5038.9	100.0
0°-180°	5038.9	100.0

Coefficient of Utilization



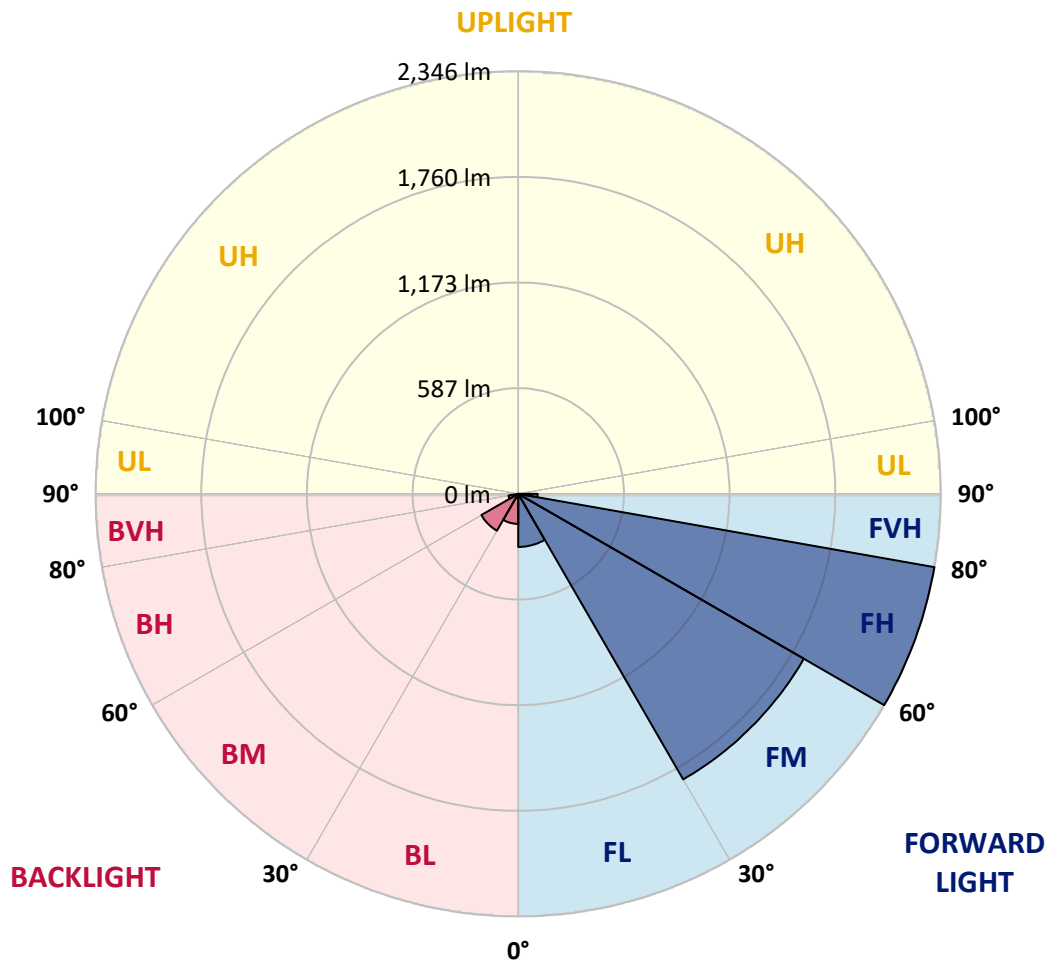
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.8	5.9			
FM (30°-60°)	1831.0	36.3			
FH (60°-80°)	2346.4	46.6			G2/5000
FVH (80°-90°)	107.4	2.1			G2/225
BL (0°-30°)	167.0	3.3	B1/500		
BM (30°-60°)	236.4	4.7	B1/1000		
BH (60°-80°)	55.0	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	821.6	825.1	828.7	829.5	835.7	835.9	844.8	851.5	858.0	864.5	866.7
5°	737.2	743.0	749.5	756.2	769.3	774.5	796.2	818.4	839.6	859.8	869.7
7.5°	647.2	653.6	663.0	679.6	694.1	704.2	738.5	777.9	817.4	854.7	876.1
10°	565.1	571.1	580.9	598.4	620.8	634.7	680.8	735.5	793.5	850.0	885.7
12.5°	512.9	516.1	521.5	540.2	560.4	576.0	630.2	698.1	773.8	849.7	901.3
15°	503.2	504.3	499.9	508.2	524.0	539.0	594.0	667.7	758.7	853.6	921.5
17.5°	518.5	518.1	503.2	502.3	514.9	527.2	576.2	646.8	748.1	862.7	947.6
20°	541.7	540.0	514.3	509.7	523.0	534.6	575.0	638.9	744.2	878.1	979.4
22.5°	572.6	569.6	529.3	524.5	538.7	550.9	590.3	646.5	747.6	898.5	1016.4
25°	610.8	606.3	555.3	549.8	564.4	576.5	617.7	668.5	758.0	923.4	1063.2
27.5°	653.9	647.5	596.7	582.6	599.1	611.7	654.2	702.0	774.2	949.8	1120.7
30°	694.6	686.2	640.4	617.2	637.4	651.5	693.6	741.9	800.4	990.5	1199.3
32.5°	735.5	726.2	679.3	651.7	670.0	685.2	734.3	796.9	849.5	1052.6	1303.9
35°	829.8	819.9	762.4	716.8	716.6	725.2	791.3	872.1	914.3	1139.2	1428.6
37.5°	988.2	982.6	927.8	841.3	818.1	808.5	868.9	961.8	1007.5	1258.2	1569.4
40°	1161.8	1157.0	1095.5	1017.1	981.9	958.2	980.4	1086.9	1139.2	1403.7	1713.2
42.5°	1357.9	1334.5	1225.0	1201.6	1170.0	1152.0	1132.1	1241.0	1301.0	1562.0	1855.7
45°	1535.9	1496.5	1354.4	1318.9	1311.8	1316.2	1327.3	1448.2	1482.9	1750.2	1997.7
47.5°	1642.0	1610.9	1501.9	1467.9	1465.9	1495.2	1579.0	1682.2	1664.1	1914.1	2122.7
50°	1742.8	1714.7	1624.2	1632.6	1641.7	1681.6	1864.9	1922.8	1829.6	2062.8	2237.4
52.5°	1824.4	1781.5	1734.1	1781.3	1826.1	1890.5	2159.8	2138.8	1947.0	2181.2	2335.5
55°	1871.5	1852.0	1874.9	1922.3	2006.6	2111.2	2438.1	2318.5	2032.8	2289.2	2400.9
57.5°	2044.1	2005.9	2051.5	2092.4	2202.4	2348.6	2676.5	2452.4	2094.7	2356.0	2415.9
60°	2252.9	2222.1	2249.0	2317.0	2465.5	2637.3	2899.4	2561.6	2127.0	2398.9	2376.9
62.5°	2585.3	2544.6	2527.9	2604.1	2800.8	2988.5	3068.6	2637.3	2119.8	2380.0	2243.4
65°	3030.7	2988.5	2913.5	2982.6	3232.8	3365.3	3257.7	2653.4	2070.5	2226.4	1905.6
67.5°	3486.8	3456.2	3392.2	3508.5	3734.4	3777.0	3457.7	2614.4	1911.7	1805.1	1346.3
70°	3788.1	3775.0	3816.8	4074.2	4275.6	4263.3	3641.2	2405.1	1490.1	1110.1	666.0
72.5°	3570.9	3633.5	3941.2	4408.0	4654.1	4553.5	3547.0	1846.8	851.7	427.0	192.6
73°	3390.9	3471.1	3885.2	4420.6	4683.9	4573.7	3467.8	1695.2	725.9	337.1	146.0
75°	2359.0	2457.4	3216.6	4117.1	4544.3	4357.7	2890.6	1037.6	336.3	149.5	58.9
77.5°	1145.3	1218.1	1771.1	2974.7	3534.2	3404.7	1799.5	386.7	151.9	93.5	27.1
80°	427.5	475.4	768.8	1513.9	2042.3	2095.9	791.5	146.3	101.1	75.2	13.8
82.5°	112.0	124.8	283.6	675.1	1046.7	1095.5	249.5	73.7	73.9	61.9	8.4
85°	35.8	41.0	88.5	303.0	493.2	433.0	65.1	35.8	53.7	46.1	4.7
87.5°	4.4	5.6	28.1	71.3	108.8	60.4	10.1	10.6	22.9	25.6	2.7
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°	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0	867.0
2.5°	868.9	867.7	867.9	861.5	857.4	848.9	840.3	836.3	832.2	830.4	832.2
5°	873.4	871.1	864.7	845.0	824.0	796.9	771.5	752.3	728.1	721.5	728.4
7.5°	880.3	875.8	857.1	816.9	770.3	718.5	660.3	617.9	583.2	560.7	568.8
10°	890.4	882.0	844.2	775.9	692.6	600.9	518.3	453.9	408.4	389.6	388.8
12.5°	907.4	891.6	828.5	722.7	597.7	475.4	367.1	297.4	260.4	236.4	236.0
15°	926.1	902.9	808.5	658.9	487.3	340.5	236.4	183.5	159.5	151.9	150.9
17.5°	949.1	916.0	782.6	580.2	371.6	225.6	154.3	139.0	138.1	137.3	137.3
20°	977.9	931.6	749.4	490.2	263.6	150.7	131.1	132.2	132.6	131.7	131.9
22.5°	1011.4	947.4	709.6	393.5	178.3	126.0	125.5	126.7	127.2	126.7	127.0
25°	1050.4	965.6	661.3	292.2	128.7	119.6	120.8	122.6	123.8	123.8	123.8
27.5°	1098.7	987.8	603.1	203.9	111.2	112.9	116.4	119.6	121.3	121.8	121.8
30°	1161.7	1015.4	533.3	139.8	101.1	104.1	110.5	116.7	119.9	120.3	120.6
32.5°	1241.0	1046.5	452.5	103.3	92.4	94.7	101.5	112.0	118.1	119.1	119.1
35°	1332.0	1082.5	365.4	90.0	86.3	87.1	92.4	104.3	115.2	117.9	118.1
37.5°	1431.6	1118.0	277.9	84.1	81.2	81.2	85.1	95.2	108.0	116.4	117.3
40°	1524.5	1139.4	194.8	79.4	76.5	76.5	79.8	87.3	99.4	112.0	114.7
42.5°	1610.4	1146.8	135.6	75.0	72.0	72.7	75.7	81.6	90.7	103.3	105.8
45°	1698.6	1145.6	98.9	69.8	67.5	69.8	72.0	76.5	83.1	90.3	90.7
47.5°	1765.2	1135.3	78.4	64.8	63.4	66.3	68.3	71.3	75.0	74.5	74.5
50°	1827.6	1110.1	63.1	58.1	59.2	62.7	63.6	64.6	64.8	60.1	59.7
52.5°	1874.9	1070.9	50.5	51.0	55.0	58.4	57.5	56.0	53.5	47.8	46.9
55°	1890.7	995.4	39.7	42.2	48.8	53.3	49.6	46.3	41.7	37.0	36.0
57.5°	1862.2	898.1	32.3	32.8	41.1	44.9	40.7	37.0	31.8	27.9	27.1
60°	1801.5	789.7	26.6	24.6	31.8	35.0	32.3	28.6	24.0	20.9	20.7
62.5°	1681.1	674.4	22.0	19.3	24.1	26.9	25.2	22.5	18.5	16.5	16.3
65°	1428.2	539.5	17.8	15.5	18.7	20.9	19.4	17.5	14.6	13.1	12.8
67.5°	996.9	364.7	14.6	12.8	14.7	16.5	15.3	14.3	11.6	11.4	11.6
70°	480.8	175.8	12.1	10.3	11.6	12.8	12.3	11.6	11.1	12.8	14.7
72.5°	137.8	58.9	9.6	8.6	9.4	10.1	10.6	10.3	12.1	15.5	18.0
73°	106.1	47.6	9.1	8.2	8.8	9.9	10.3	10.1	12.3	15.8	18.0
75°	45.4	22.9	6.9	6.7	7.4	8.6	9.1	9.1	12.3	16.1	17.3
77.5°	20.5	12.3	4.4	5.2	6.4	6.9	7.6	7.6	9.9	12.3	12.3
80°	11.6	6.7	3.5	3.9	4.7	4.7	4.7	4.2	4.4	4.9	5.4
82.5°	7.4	4.4	2.7	3.2	2.9	2.4	2.0	2.0	1.7	2.0	2.4
85°	4.2	2.4	2.4	2.0	1.2	0.9	1.2	0.9	0.3	0.0	0.3
87.5°	2.4	1.5	0.8	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)