

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P322535

Luminaire Tested: **GAN-SA1D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322535
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA 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: 5254 lumens
Efficiency: N/A
Efficacy: 78.4 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

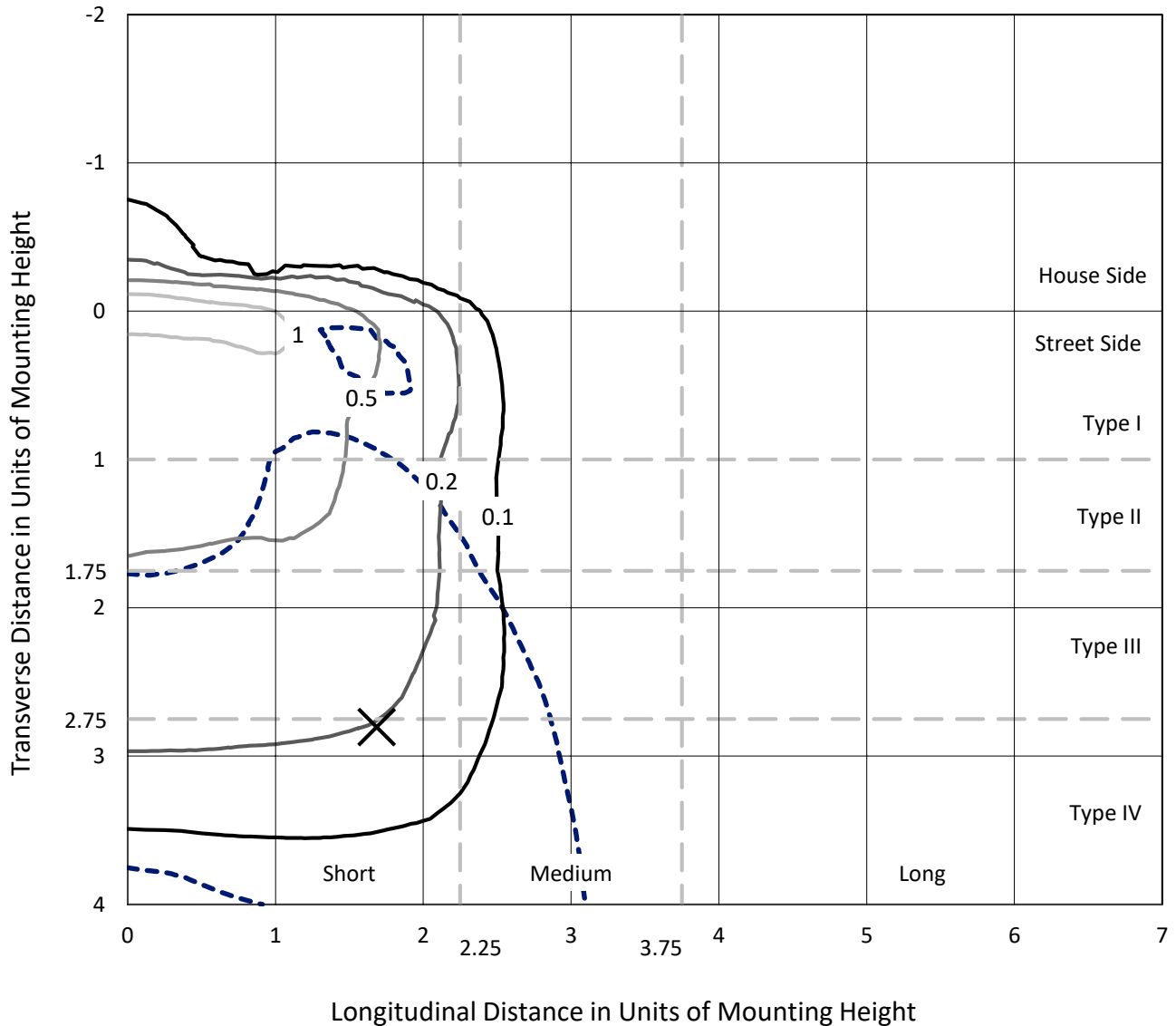
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

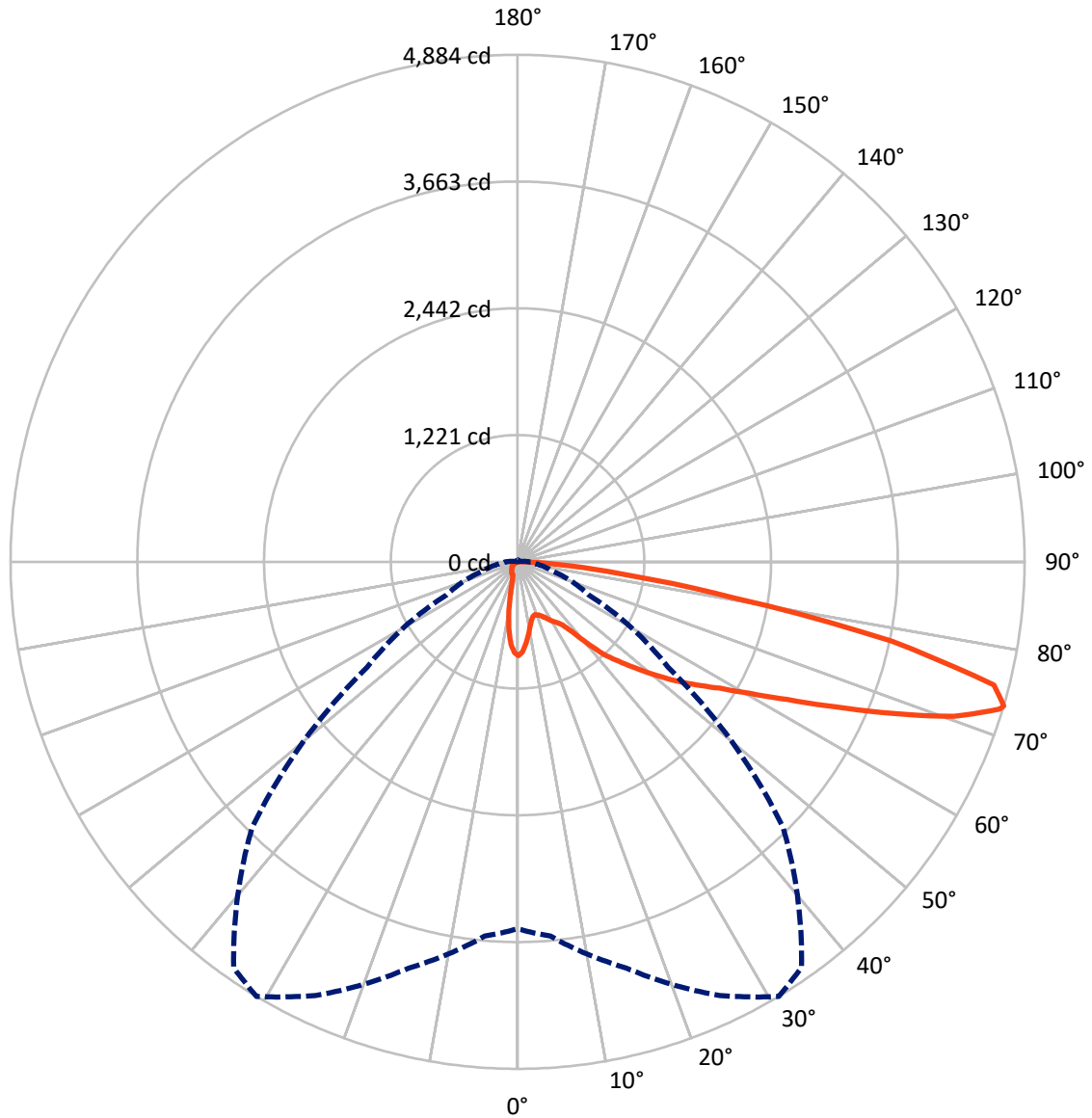
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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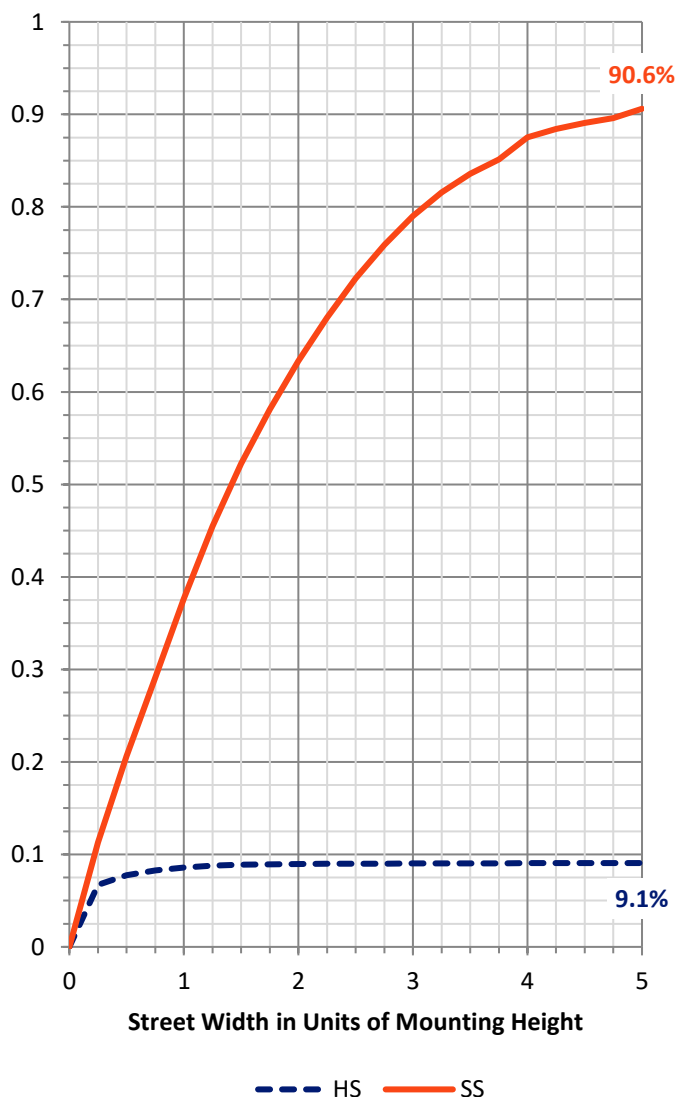
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.9	0.0	478.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4775.1	0.0	4775.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	5254.0	0.0	5254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.4
10°-20°	162.7	3.1
20°-30°	243.8	4.6
30°-40°	387.9	7.4
40°-50°	692.8	13.2
50°-60°	1075.0	20.5
60°-70°	1429.0	27.2
70°-80°	1074.9	20.5
80°-90°	113.0	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°	5254.0	100.0
0°-180°	5254.0	100.0

Coefficient of Utilization



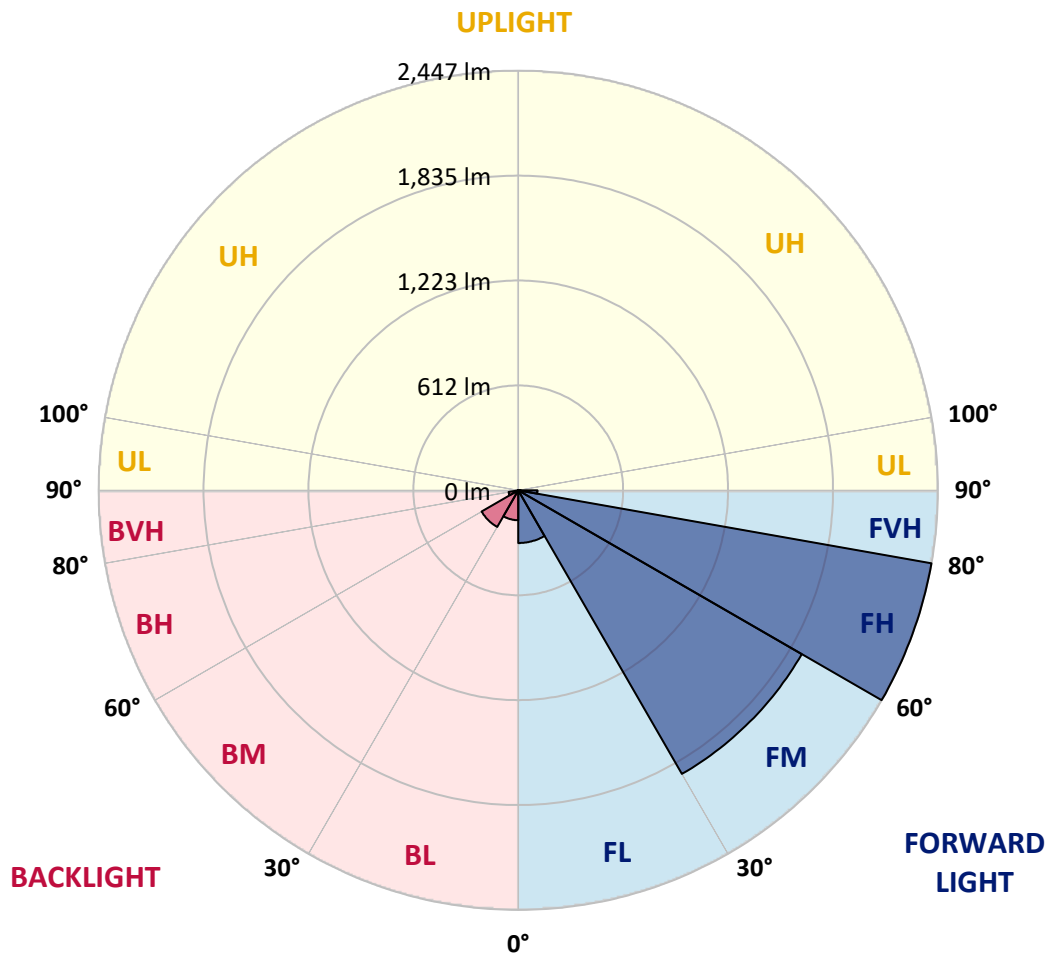
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.4	5.9			
FM (30°-60°)	1909.1	36.3			
FH (60°-80°)	2446.6	46.6			G2/5000
FVH (80°-90°)	112.0	2.1			G2/225
BL (0°-30°)	174.2	3.3	B1/500		
BM (30°-60°)	246.5	4.7	B1/1000		
BH (60°-80°)	57.3	1.1	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: 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°	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0
2.5°	856.7	860.3	864.1	864.9	871.3	871.6	880.8	887.8	894.7	901.4	903.7
5°	768.7	774.6	781.6	788.5	802.2	807.5	830.2	853.3	875.4	896.5	906.8
7.5°	674.9	681.6	691.3	708.6	723.7	734.3	770.0	811.1	852.3	891.1	913.5
10°	589.3	595.4	605.7	624.0	647.4	661.8	709.9	766.9	827.3	886.2	923.5
12.5°	534.8	538.1	543.8	563.3	584.4	600.6	657.1	727.8	806.8	886.0	939.7
15°	524.7	525.8	521.1	529.9	546.3	562.0	619.4	696.2	791.1	890.1	960.8
17.5°	540.7	540.2	524.7	523.7	536.8	549.7	600.8	674.4	780.0	899.6	988.0
20°	564.8	563.0	536.3	531.4	545.3	557.4	599.6	666.1	775.9	915.5	1021.2
22.5°	597.0	593.9	552.0	546.9	561.8	574.4	615.5	674.1	779.5	936.9	1059.8
25°	636.8	632.2	579.0	573.3	588.5	601.1	644.0	697.0	790.3	962.8	1108.6
27.5°	681.8	675.1	622.2	607.5	624.8	637.9	682.1	732.0	807.3	990.3	1168.5
30°	724.2	715.5	667.7	643.5	664.6	679.3	723.2	773.6	834.5	1032.8	1250.5
32.5°	766.9	757.2	708.3	679.5	698.5	714.5	765.6	830.9	885.7	1097.6	1359.5
35°	865.1	854.9	795.0	747.4	747.1	756.1	825.0	909.4	953.3	1187.8	1489.6
37.5°	1030.5	1024.5	967.5	877.2	853.1	843.0	906.0	1002.9	1050.5	1312.0	1636.4
40°	1211.5	1206.3	1142.3	1060.5	1023.8	999.1	1022.2	1133.3	1187.8	1463.7	1786.3
42.5°	1415.8	1391.4	1277.3	1252.8	1219.9	1201.2	1180.3	1294.0	1356.5	1628.7	1934.9
45°	1601.5	1560.3	1412.2	1375.2	1367.8	1372.4	1384.0	1509.9	1546.2	1824.9	2083.0
47.5°	1712.0	1679.6	1566.0	1530.5	1528.5	1559.1	1646.5	1753.9	1735.2	1995.9	2213.4
50°	1817.2	1787.9	1693.5	1702.3	1711.8	1753.4	1944.4	2004.9	1907.7	2150.9	2332.9
52.5°	1902.3	1857.5	1808.2	1857.3	1904.1	1971.2	2251.9	2230.1	2030.1	2274.3	2435.2
55°	1951.4	1931.1	1955.0	2004.3	2092.3	2201.3	2542.2	2417.5	2119.5	2386.9	2503.4
57.5°	2131.4	2091.5	2139.1	2181.7	2296.4	2448.9	2790.8	2557.1	2184.1	2456.6	2519.1
60°	2349.1	2317.0	2345.0	2416.0	2570.7	2749.9	3023.2	2671.0	2217.7	2501.3	2478.4
62.5°	2695.7	2653.3	2635.8	2715.2	2920.4	3116.0	3199.6	2749.9	2210.3	2481.5	2339.1
65°	3160.0	3116.0	3037.9	3109.9	3370.8	3508.9	3396.8	2766.6	2158.9	2321.4	1986.9
67.5°	3635.6	3603.8	3536.9	3658.3	3893.8	3938.2	3605.3	2726.0	1993.3	1882.2	1403.8
70°	3949.8	3936.2	3979.6	4248.1	4458.1	4445.2	3796.6	2507.7	1553.7	1157.5	694.4
72.5°	3723.3	3788.6	4109.5	4596.2	4852.8	4747.9	3698.4	1925.7	888.0	445.3	200.8
73°	3535.6	3619.2	4051.1	4609.3	4883.9	4768.9	3615.8	1767.6	756.9	351.5	152.2
75°	2459.7	2562.3	3353.9	4292.8	4738.3	4543.7	3014.0	1081.9	350.7	155.8	61.4
77.5°	1194.2	1270.1	1846.7	3101.6	3685.0	3550.0	1876.3	403.1	158.4	97.4	28.3
80°	445.8	495.7	801.6	1578.6	2129.6	2185.3	825.3	152.5	105.4	78.4	14.4
82.5°	116.7	130.1	295.7	703.9	1091.4	1142.3	260.2	76.9	77.1	64.5	8.7
85°	37.3	42.7	92.3	316.0	514.2	451.5	67.9	37.3	56.0	48.1	4.9
87.5°	4.6	5.9	29.3	74.3	113.4	63.0	10.5	11.1	23.9	26.7	2.8
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°	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0	904.0
2.5°	906.0	904.7	905.0	898.3	893.9	885.2	876.2	872.1	867.7	865.9	867.7
5°	910.6	908.3	901.6	881.1	859.2	830.9	804.5	784.4	759.2	752.3	759.5
7.5°	917.8	913.2	893.7	851.8	803.2	749.2	688.5	644.3	608.0	584.6	593.1
10°	928.4	919.6	880.3	809.1	722.2	626.6	540.4	473.3	425.8	406.2	405.4
12.5°	946.1	929.7	863.9	753.6	623.2	495.7	382.8	310.1	271.5	246.6	246.0
15°	965.7	941.5	843.0	687.0	508.0	355.1	246.6	191.3	166.3	158.4	157.3
17.5°	989.6	955.1	816.0	605.0	387.4	235.2	160.9	145.0	144.0	143.2	143.2
20°	1019.7	971.3	781.3	511.1	274.8	157.1	136.8	137.8	138.3	137.3	137.5
22.5°	1054.6	987.8	739.9	410.3	185.9	131.4	130.9	132.1	132.7	132.1	132.4
25°	1095.2	1006.8	689.5	304.7	134.2	124.7	126.0	127.8	129.1	129.1	129.1
27.5°	1145.6	1029.9	628.9	212.6	116.0	117.8	121.4	124.7	126.5	127.0	127.0
30°	1211.2	1058.7	556.1	145.8	105.4	108.5	115.2	121.6	125.0	125.5	125.7
32.5°	1294.0	1091.1	471.8	107.7	96.4	98.7	105.9	116.7	123.2	124.2	124.2
35°	1388.9	1128.7	381.0	93.8	90.0	90.8	96.4	108.8	120.1	122.9	123.2
37.5°	1492.7	1165.7	289.8	87.7	84.6	84.6	88.7	99.2	112.6	121.4	122.4
40°	1589.6	1188.1	203.1	82.8	79.7	79.7	83.3	91.0	103.6	116.7	119.6
42.5°	1679.1	1195.8	141.4	78.2	75.1	75.8	78.9	85.1	94.6	107.7	110.3
45°	1771.2	1194.5	103.1	72.8	70.4	72.8	75.1	79.7	86.6	94.1	94.6
47.5°	1840.6	1183.7	81.8	67.6	66.1	69.2	71.2	74.3	78.2	77.6	77.6
50°	1905.6	1157.5	65.8	60.7	61.7	65.3	66.3	67.4	67.6	62.7	62.2
52.5°	1955.0	1116.6	52.7	53.2	57.3	60.9	59.9	58.4	55.8	49.9	48.8
55°	1971.4	1037.9	41.4	44.0	50.9	55.5	51.7	48.3	43.4	38.6	37.5
57.5°	1941.6	936.4	33.7	34.2	42.9	46.8	42.4	38.6	33.2	29.1	28.3
60°	1878.4	823.5	27.8	25.7	33.2	36.5	33.7	29.8	24.9	21.9	21.6
62.5°	1752.9	703.2	22.9	20.1	25.2	28.0	26.2	23.4	19.3	17.2	17.0
65°	1489.1	562.5	18.5	16.2	19.5	21.9	20.3	18.3	15.2	13.6	13.4
67.5°	1039.5	380.3	15.2	13.4	15.4	17.2	15.9	14.9	12.1	11.8	12.1
70°	501.3	183.3	12.6	10.8	12.1	13.4	12.9	12.1	11.6	13.4	15.4
72.5°	143.7	61.4	10.0	9.0	9.8	10.5	11.1	10.8	12.6	16.2	18.8
73°	110.6	49.6	9.5	8.5	9.3	10.3	10.8	10.5	12.9	16.5	18.8
75°	47.3	23.9	7.2	6.9	7.7	9.0	9.5	9.5	12.9	16.7	18.0
77.5°	21.3	12.9	4.6	5.4	6.7	7.2	8.0	8.0	10.3	12.9	12.9
80°	12.1	6.9	3.6	4.1	4.9	4.9	4.9	4.4	4.6	5.1	5.7
82.5°	7.7	4.6	2.8	3.3	3.1	2.6	2.1	2.1	1.8	2.1	2.6
85°	4.4	2.6	2.6	2.1	1.3	1.0	1.3	1.0	0.3	0.0	0.3
87.5°	2.6	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)