

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: P322255

Luminaire Tested: **GAN-SA1D-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5920 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

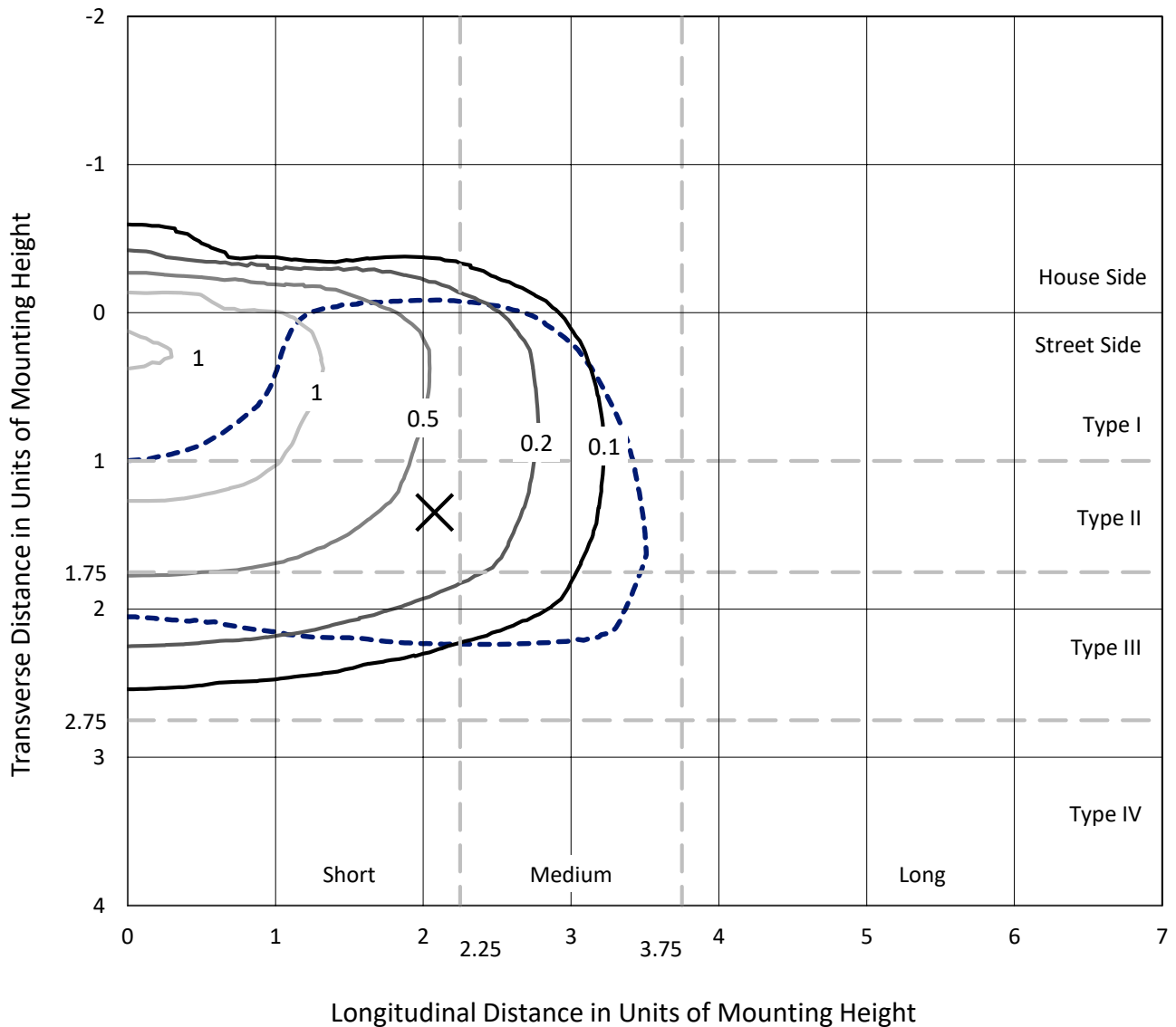
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

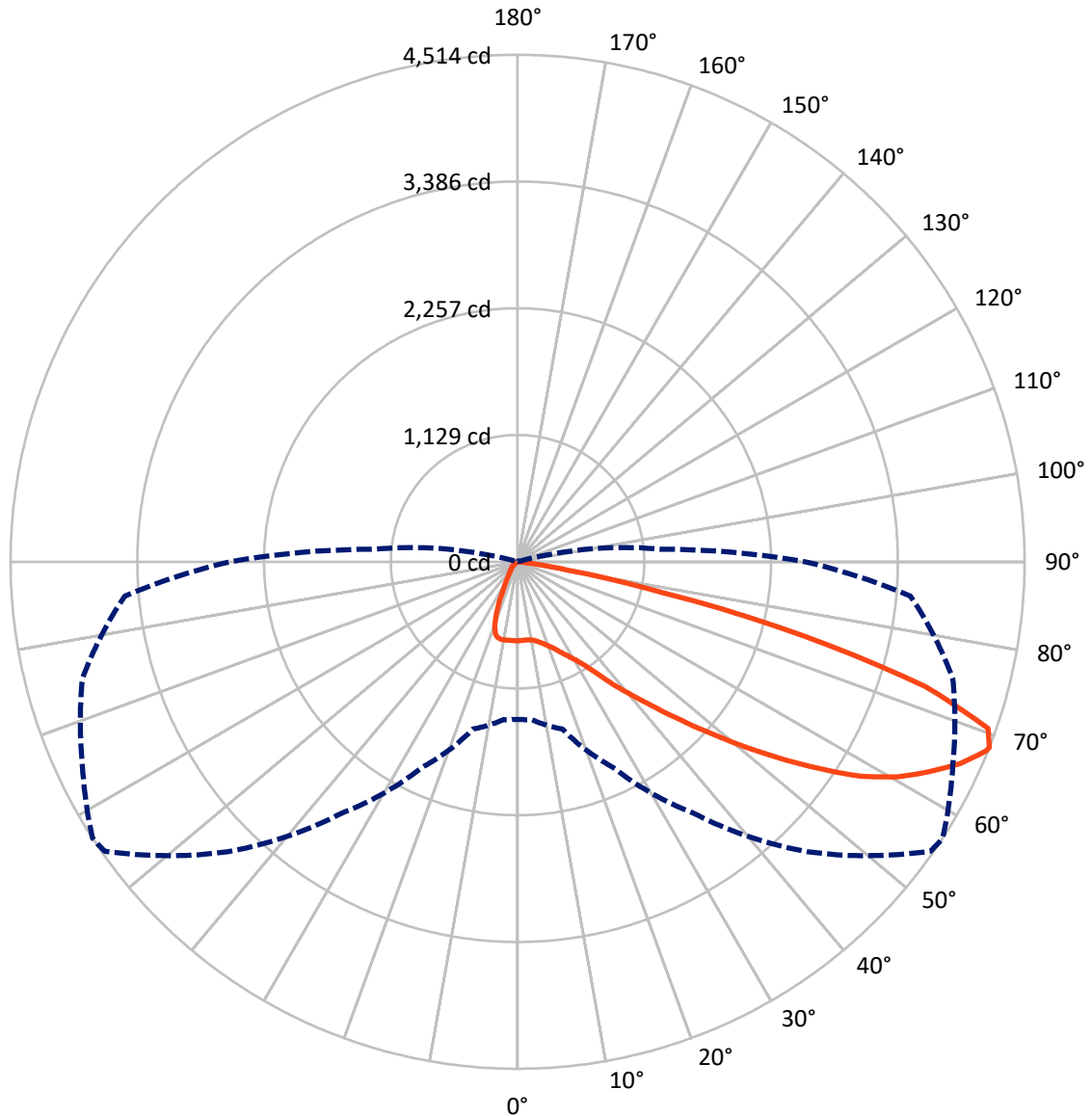
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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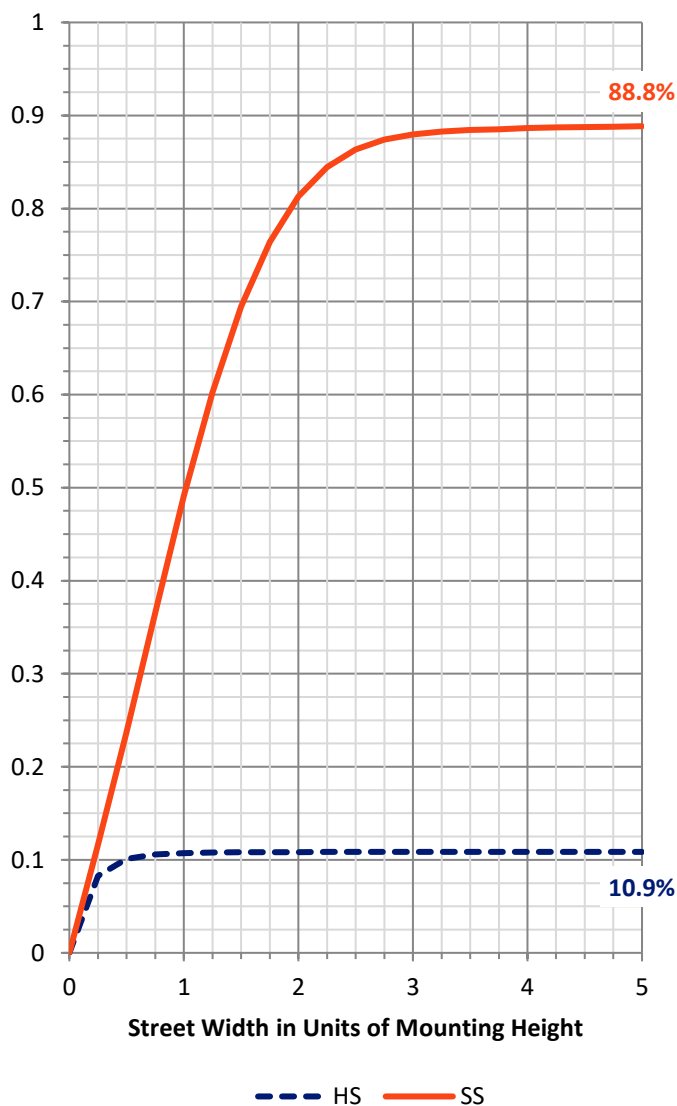
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.2	0.0	649.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5270.8	0.0	5270.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	5920.0	0.0	5920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.1
10°-20°	182.4	3.1
20°-30°	314.7	5.3
30°-40°	543.2	9.2
40°-50°	929.1	15.7
50°-60°	1486.5	25.1
60°-70°	1717.4	29.0
70°-80°	656.3	11.1
80°-90°	24.6	0.4
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°	5920.0	100.0
0°-180°	5920.0	100.0

Coefficient of Utilization

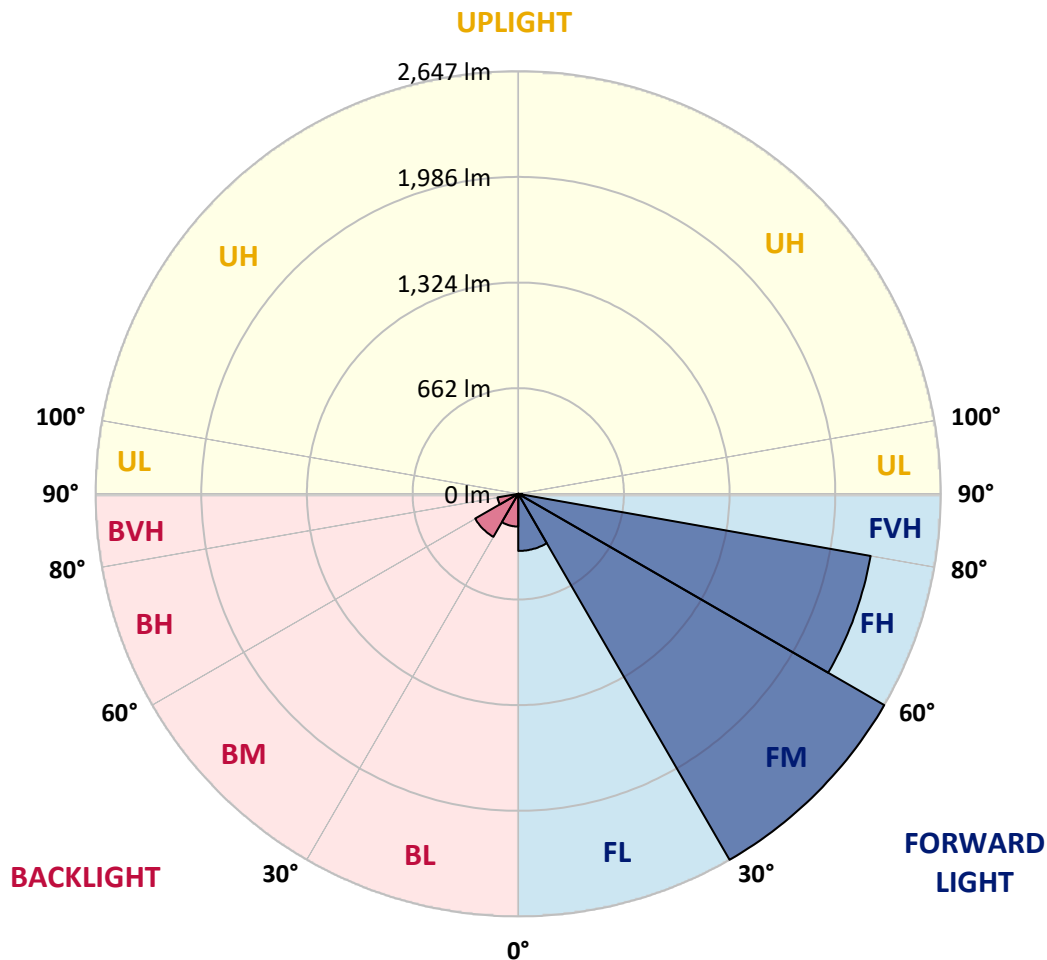


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.8	6.0			
FM (30°-60°)	2647.4	44.7			
FH (60°-80°)	2241.5	37.9			G2/5000
FVH (80°-90°)	24.2	0.4			G1/100
BL (0°-30°)	205.2	3.5	B1/500		
BM (30°-60°)	311.4	5.3	B1/1000		
BH (60°-80°)	132.2	2.2	B1/500		G1/500
BVH (80°-90°)	0.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5
2.5°	686.9	690.0	692.3	693.7	695.3	699.0	700.1	701.8	702.6	702.6	704.6
5°	659.8	663.1	667.9	671.8	679.7	689.7	697.0	699.8	704.9	709.3	711.8
7.5°	634.6	638.5	644.1	653.3	666.8	683.0	698.1	702.1	711.8	721.4	726.1
10°	618.4	621.4	628.7	641.9	659.5	682.2	703.5	708.2	725.0	741.0	749.9
12.5°	612.8	615.6	623.1	637.9	659.8	686.4	715.8	722.8	747.4	770.6	783.2
15°	620.9	621.4	629.6	643.5	665.1	696.7	736.2	744.6	775.7	805.9	821.6
17.5°	652.2	649.7	653.9	660.1	677.1	710.5	757.8	770.4	811.8	847.3	862.2
20°	730.6	730.6	721.1	704.3	704.6	731.7	786.9	801.1	851.8	893.0	906.4
22.5°	864.7	862.2	843.1	802.0	764.2	768.4	822.4	840.9	900.0	943.9	948.4
25°	1025.9	1022.8	993.5	935.5	870.0	827.7	870.6	891.8	957.3	996.3	987.0
27.5°	1196.7	1194.2	1165.0	1093.1	999.9	922.4	928.0	948.1	1015.8	1054.2	1024.8
30°	1362.1	1363.0	1334.1	1260.2	1154.7	1043.0	1000.7	1012.5	1072.7	1111.6	1069.6
32.5°	1519.4	1520.6	1495.6	1413.1	1314.5	1183.2	1101.5	1098.4	1138.7	1177.1	1128.9
35°	1659.7	1662.5	1645.4	1581.3	1476.9	1339.4	1232.2	1225.0	1232.5	1275.9	1219.9
37.5°	1794.9	1796.6	1783.7	1729.7	1642.3	1511.0	1397.4	1387.0	1370.8	1404.1	1340.0
40°	1943.0	1938.8	1923.9	1874.9	1799.9	1700.5	1574.9	1556.9	1528.7	1558.3	1497.9
42.5°	2080.7	2075.9	2078.4	2023.0	1959.8	1895.4	1781.7	1750.9	1734.4	1768.6	1691.6
45°	2252.8	2250.3	2258.7	2210.6	2159.3	2112.6	2018.8	1985.2	1978.0	2018.0	1925.9
47.5°	2422.8	2428.9	2454.9	2434.5	2413.8	2372.6	2269.9	2254.8	2259.3	2307.7	2173.1
50°	2564.4	2571.7	2643.1	2666.6	2696.5	2672.4	2569.4	2560.2	2577.8	2621.5	2439.0
52.5°	2666.8	2681.7	2770.4	2878.8	2987.9	3004.2	2901.4	2893.0	2916.8	2923.5	2644.5
55°	2737.9	2751.1	2851.6	3049.8	3272.0	3342.0	3278.2	3245.7	3241.3	3174.9	2860.6
57.5°	2750.5	2749.1	2893.6	3160.4	3494.9	3675.4	3635.1	3603.2	3511.4	3407.2	3108.3
60°	2679.4	2687.6	2855.2	3198.7	3634.8	3927.6	3930.7	3889.3	3746.2	3633.1	3348.5
62.5°	2460.5	2493.6	2662.9	3098.2	3633.1	4029.2	4147.4	4115.7	3944.7	3818.2	3592.0
65°	2105.6	2117.4	2278.9	2753.9	3387.7	3986.7	4342.5	4330.7	4123.6	3997.9	3717.1
67.5°	1537.6	1512.2	1681.8	2168.6	2868.1	3738.7	4482.4	4497.3	4261.6	4034.8	3583.9
68°	1403.3	1410.8	1542.9	2023.9	2732.1	3651.1	4491.7	4514.4	4275.3	4010.8	3511.1
70°	836.4	851.0	968.8	1393.5	2078.4	3155.3	4392.0	4443.8	4193.6	3762.5	3036.9
72.5°	213.6	230.9	342.3	623.7	1187.2	2223.2	3707.6	3795.2	3641.0	3052.3	2050.2
75°	87.9	92.4	122.3	205.5	442.3	1001.6	2443.7	2631.3	2524.1	1827.4	926.6
77.5°	60.7	63.8	78.7	113.9	191.5	339.5	1198.1	1333.6	1201.4	623.7	202.1
80°	43.7	46.2	56.3	75.9	110.0	121.2	390.5	451.5	358.6	136.9	50.1
82.5°	26.0	28.0	42.0	54.0	66.9	57.9	97.1	110.3	103.9	68.0	22.4
85°	12.9	15.1	28.3	38.6	36.1	24.4	29.7	33.0	40.9	41.4	12.0
87.5°	0.8	1.7	16.5	23.2	10.1	5.6	8.7	10.6	14.6	20.4	5.0
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°	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.5
2.5°	705.4	705.7	703.7	702.9	703.5	700.1	698.7	699.3	699.3	700.1	698.7
5°	712.4	712.4	709.1	704.6	702.1	695.6	691.4	690.3	689.5	688.9	687.8
7.5°	727.5	725.8	720.0	710.2	701.8	687.8	677.1	671.5	668.7	667.6	666.8
10°	751.9	748.8	739.0	720.8	701.5	676.6	653.3	636.8	623.1	617.5	614.2
12.5°	784.6	780.2	763.6	733.4	699.5	653.6	603.2	554.8	509.7	491.3	482.0
15°	822.4	816.0	789.9	744.0	688.1	601.8	492.4	407.6	345.1	321.6	311.6
17.5°	860.8	852.4	812.9	750.8	653.6	494.6	345.4	260.9	219.2	208.0	204.1
20°	899.4	887.1	832.8	745.7	575.8	356.6	227.9	190.6	178.6	175.2	174.1
22.5°	936.1	917.0	850.7	726.1	456.0	239.3	180.3	168.5	164.6	162.6	162.1
25°	968.0	941.4	866.4	665.7	322.8	180.8	162.4	158.4	153.4	149.8	150.0
27.5°	997.9	965.7	875.9	566.0	215.3	154.5	150.3	145.0	135.8	130.4	130.4
30°	1034.0	998.2	882.9	435.6	158.4	136.6	133.2	125.1	112.5	105.5	105.5
32.5°	1088.3	1047.5	878.4	305.7	131.3	120.1	112.3	101.1	87.3	80.6	80.3
35°	1171.5	1123.6	846.5	200.4	115.9	104.4	91.8	78.1	66.1	60.5	60.2
37.5°	1283.5	1225.5	774.8	143.3	103.9	89.9	74.7	59.6	50.7	47.0	46.7
40°	1428.7	1343.9	672.4	116.2	92.7	75.9	57.7	46.2	40.0	37.2	37.5
42.5°	1603.1	1470.7	549.5	100.2	81.7	62.4	45.1	36.4	32.5	30.5	30.0
45°	1796.8	1595.9	420.7	89.3	70.8	50.4	35.3	28.8	25.8	24.6	24.6
47.5°	2009.9	1717.6	307.9	79.8	59.1	38.9	28.3	23.5	21.0	20.2	19.9
50°	2203.3	1802.2	222.0	69.7	48.4	30.8	23.0	19.6	17.9	16.8	16.8
52.5°	2364.5	1828.8	163.5	58.8	39.2	24.6	19.0	16.8	15.1	14.3	14.3
55°	2506.5	1817.8	121.5	48.4	31.6	20.2	16.2	14.3	12.9	12.0	12.0
57.5°	2642.5	1782.6	90.7	39.5	25.5	16.2	13.7	12.0	10.6	10.1	10.1
60°	2753.6	1723.8	67.5	31.9	20.4	13.2	11.5	9.8	8.7	7.8	7.8
62.5°	2843.8	1658.8	49.5	26.3	16.2	10.4	9.0	8.1	6.4	5.6	5.6
65°	2844.3	1551.1	37.2	21.8	12.6	8.1	6.7	6.4	4.2	3.4	3.1
67.5°	2638.6	1337.2	28.6	18.8	9.8	6.2	5.0	5.3	2.2	1.4	1.1
68°	2563.8	1282.9	26.9	18.5	9.2	5.9	4.8	5.3	2.0	1.1	0.8
70°	2161.6	1020.6	21.6	17.9	8.1	4.5	3.9	5.3	1.7	0.8	0.6
72.5°	1382.6	592.3	16.0	14.3	6.2	3.4	2.5	4.8	1.7	0.6	0.3
75°	588.4	183.6	10.9	10.1	3.6	2.5	1.7	3.1	1.1	0.3	0.0
77.5°	124.0	41.4	6.4	6.2	2.5	1.7	1.1	0.8	0.3	0.0	0.0
80°	31.9	12.0	3.4	3.1	1.4	0.8	0.6	0.0	0.0	0.0	0.0
82.5°	10.1	4.8	2.0	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.8	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.8	0.3	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)