

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: P321257

Luminaire Tested: **GAN-SA3D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17413 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

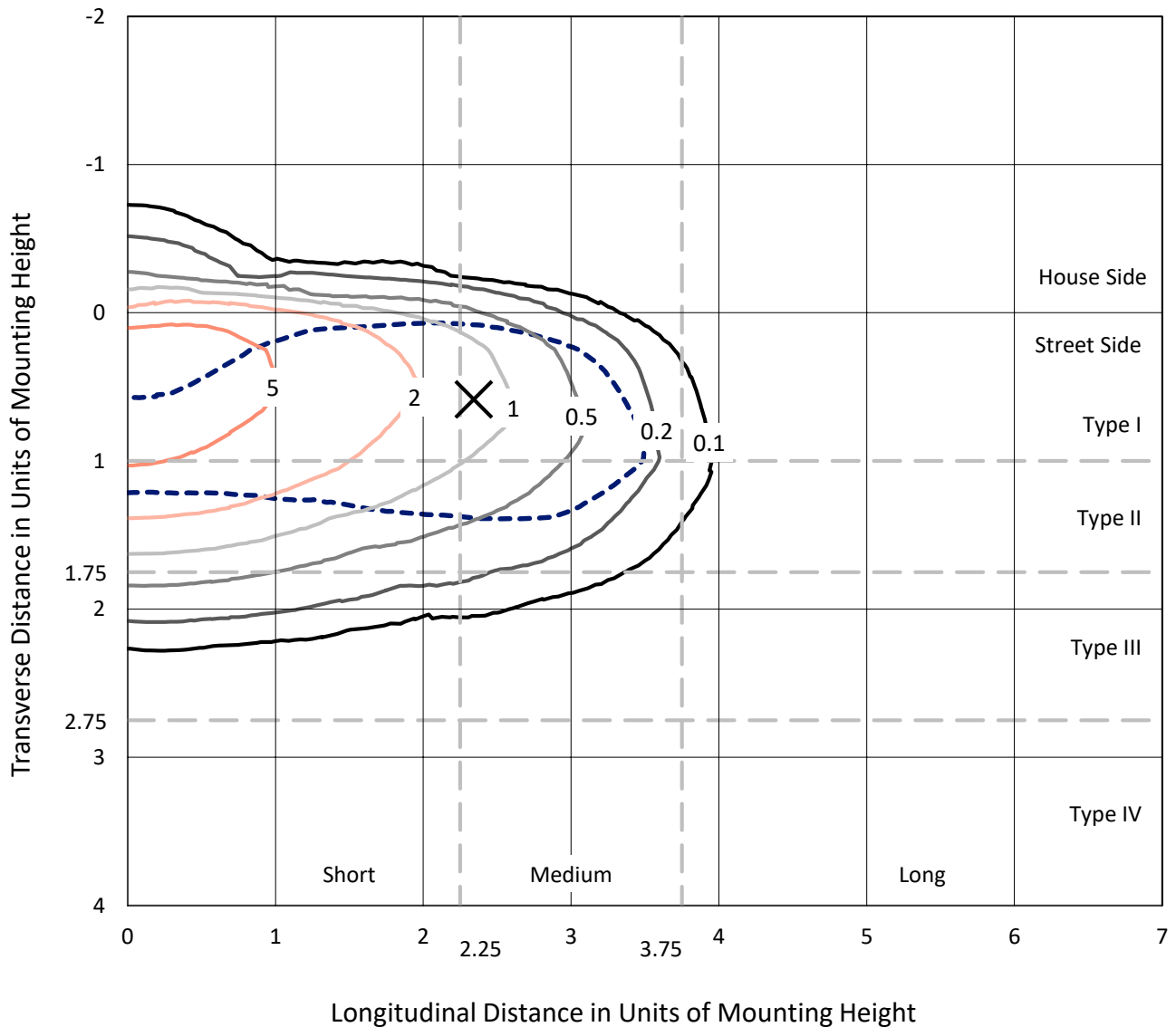
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

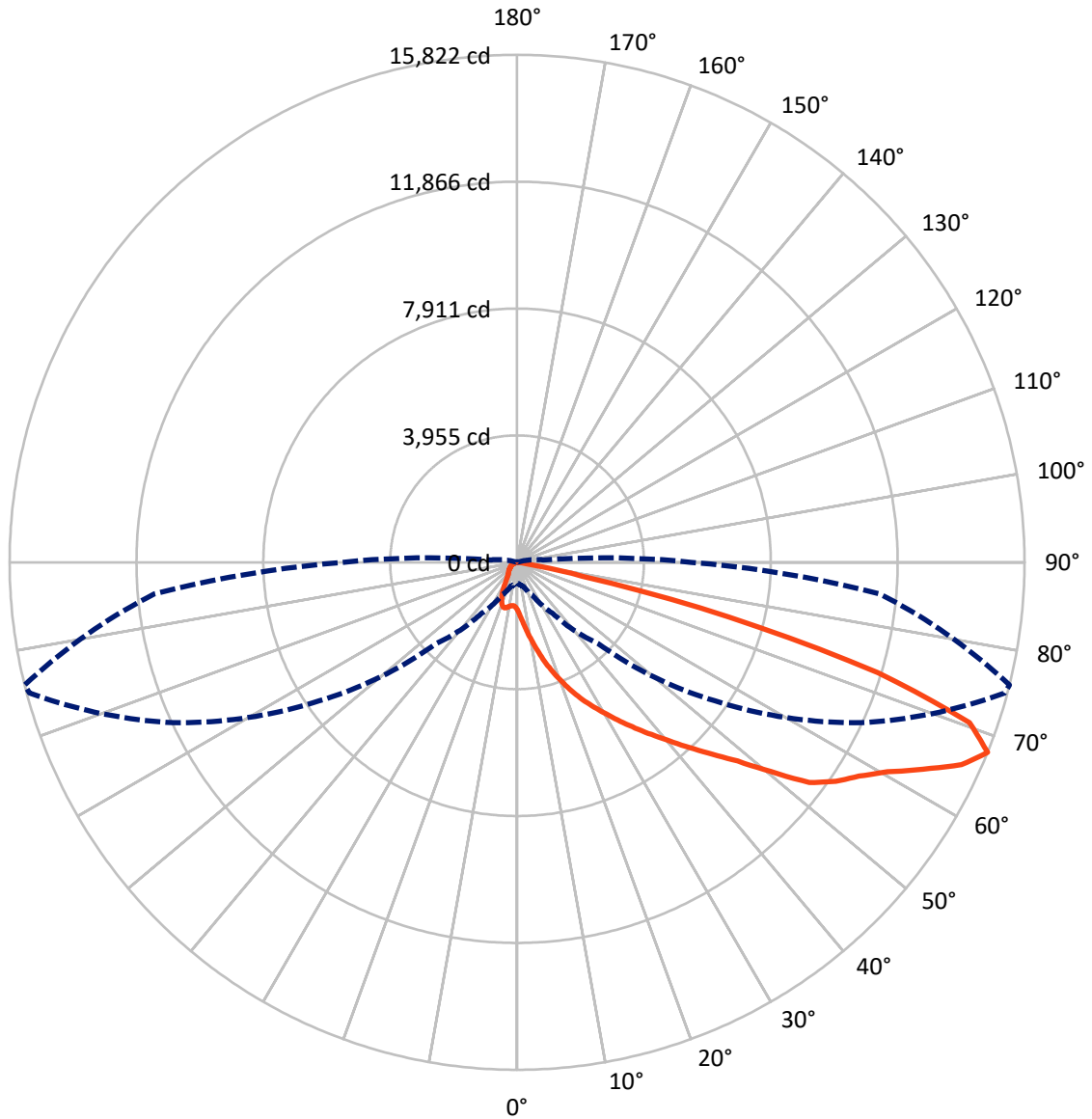
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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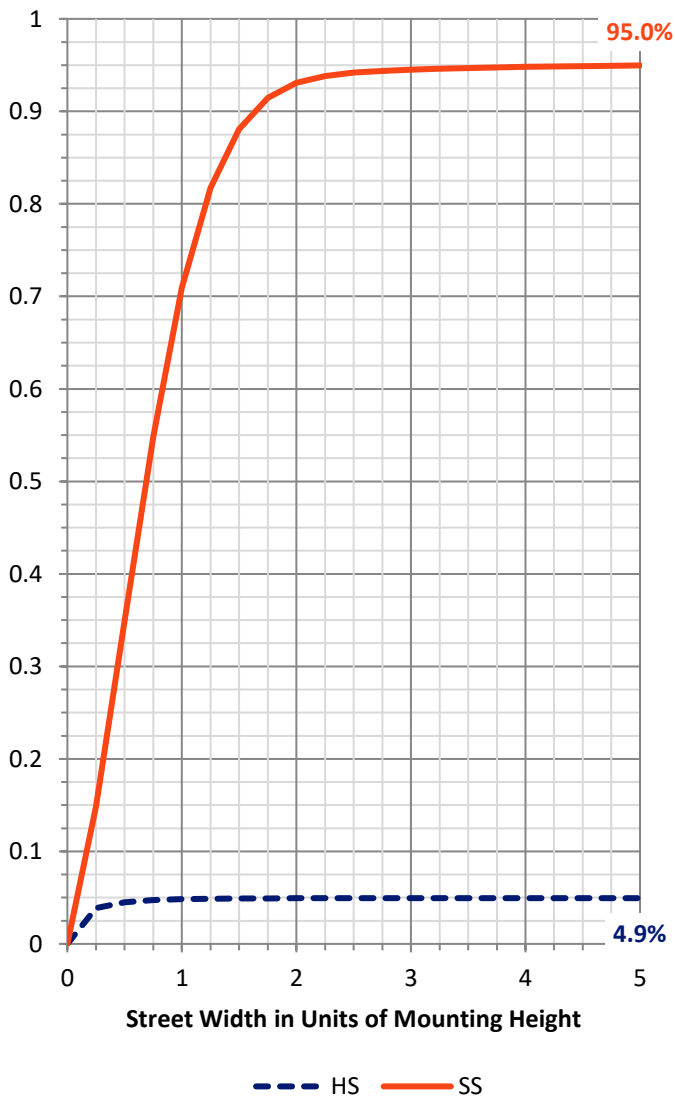
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.7	0.0	864.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16548.3	0.0	16548.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	17413.0	0.0	17413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	1.1
10°-20°	728.1	4.2
20°-30°	1481.5	8.5
30°-40°	2571.4	14.8
40°-50°	3633.1	20.9
50°-60°	4120.1	23.7
60°-70°	3417.2	19.6
70°-80°	1237.8	7.1
80°-90°	40.1	0.2
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°	17413.0	100.0
0°-180°	17413.0	100.0

Coefficient of Utilization



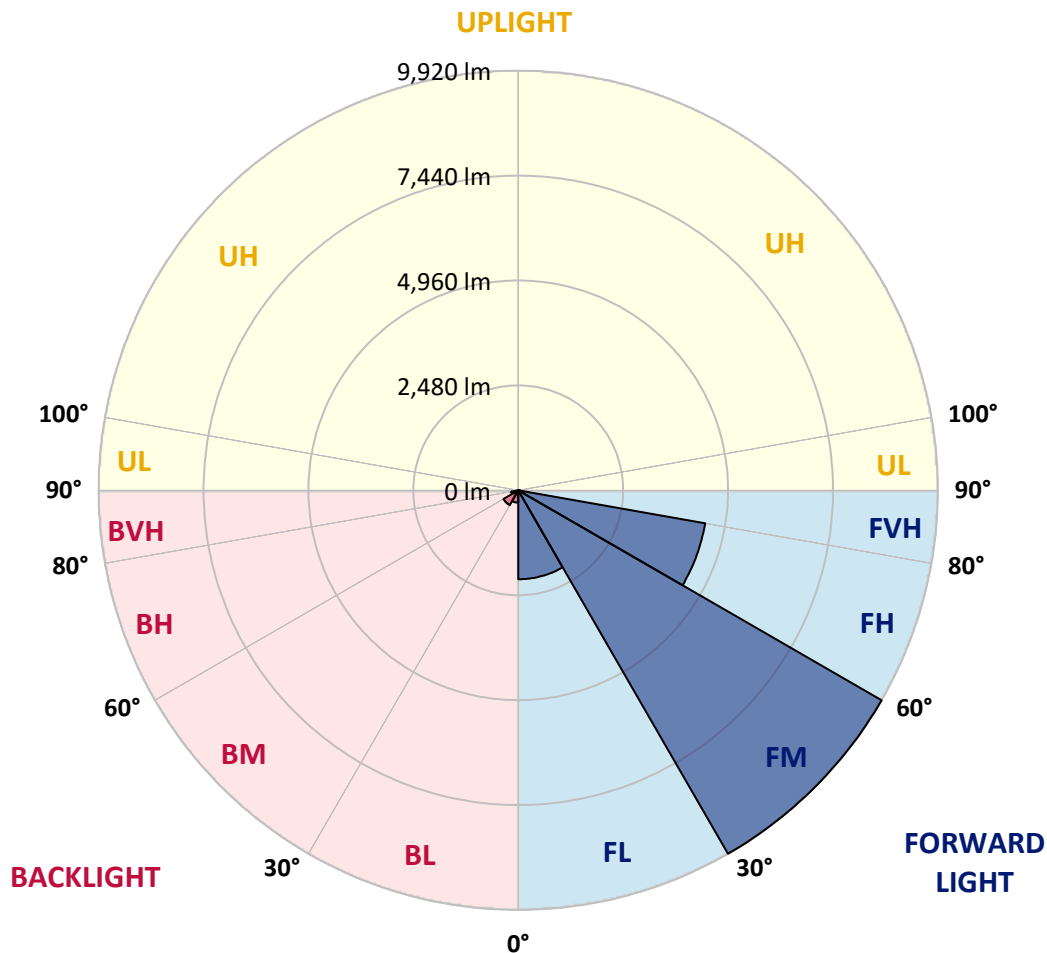
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.7	12.1			
FM (30°-60°)	9919.8	57.0			
FH (60°-80°)	4487.9	25.8			G2/5000
FVH (80°-90°)	38.9	0.2			G1/100
BL (0°-30°)	291.6	1.7	B1/500		
BM (30°-60°)	404.7	2.3	B1/1000		
BH (60°-80°)	167.1	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1
2.5°	2205.0	2155.4	2166.9	2134.8	2076.8	1957.8	1856.3	1760.2	1648.0	1644.2	1551.9
5°	2973.3	2931.4	2926.0	2861.2	2755.9	2553.7	2356.8	2132.5	1882.3	1864.0	1667.9
7.5°	3670.7	3637.1	3624.9	3547.9	3351.8	3154.9	2898.6	2568.9	2177.5	2144.0	1824.3
10°	4206.3	4190.3	4193.3	4138.4	3970.5	3787.4	3451.0	3030.6	2512.5	2460.6	2012.0
12.5°	4612.2	4616.0	4643.5	4609.9	4516.1	4380.3	4020.9	3522.7	2883.3	2812.3	2226.4
15°	4910.5	4929.6	4980.0	5021.9	5015.1	4897.6	4568.0	4022.4	3277.0	3198.4	2465.2
17.5°	5103.6	5124.9	5198.2	5291.3	5376.7	5349.2	5095.9	4504.6	3675.3	3584.5	2720.8
20°	5272.9	5298.1	5376.7	5499.6	5659.0	5693.3	5527.0	4972.3	4072.8	3962.1	2984.8
22.5°	5639.9	5639.2	5687.2	5759.0	5910.8	5999.3	5894.0	5406.5	4465.7	4350.5	3254.1
25°	6303.7	6278.6	6261.8	6205.3	6238.9	6293.8	6235.1	5812.4	4860.9	4744.2	3527.3
27.5°	7092.6	7107.9	6972.1	6820.3	6702.8	6646.3	6550.2	6188.5	5240.9	5112.7	3794.3
30°	7925.1	7929.6	7769.4	7575.6	7317.0	7102.6	6936.2	6547.9	5631.5	5491.9	4053.7
32.5°	8675.8	8646.1	8487.4	8223.4	7896.8	7655.7	7310.1	6949.2	6045.1	5910.0	4342.1
35°	9271.0	9235.9	9042.8	8802.5	8463.7	8221.1	7805.3	7349.8	6480.0	6348.0	4631.3
37.5°	9705.9	9664.7	9466.3	9219.1	8926.9	8785.7	8379.8	7785.4	6954.6	6812.6	4935.7
40°	9856.9	9821.1	9696.7	9515.9	9280.9	9248.8	8989.4	8286.7	7471.1	7320.0	5280.6
42.5°	9766.9	9731.8	9687.5	9626.5	9528.8	9559.4	9564.7	8858.2	8044.8	7896.1	5661.3
45°	9409.8	9378.5	9424.3	9513.6	9634.9	9786.0	10089.6	9472.4	8685.7	8527.0	6101.5
47.5°	8884.1	8861.2	8987.9	9210.7	9565.5	9982.1	10569.5	10117.9	9405.2	9258.0	6650.9
50°	8136.4	8132.6	8385.9	8792.6	9338.1	10076.7	11065.5	10851.8	10404.7	10249.9	7414.6
52.5°	6972.1	6979.7	7478.0	8128.8	8939.1	10012.6	11384.4	11794.9	11567.5	11406.5	8076.1
55°	5863.5	5909.3	6262.5	7201.0	8327.1	9774.5	11494.3	12235.1	12209.2	12056.6	8443.9
57.5°	4777.8	4860.9	5201.2	6077.9	7433.7	9225.9	11434.0	12425.9	12686.8	12570.1	8929.1
60°	3601.3	3639.4	4031.6	4851.0	6286.9	8224.9	10996.8	12529.6	13339.9	13259.0	9633.4
62.5°	2291.2	2386.6	2734.5	3525.0	4895.3	6834.8	10259.8	12528.1	14157.1	14201.3	10542.1
65°	1207.0	1318.4	1503.1	2184.4	3364.0	5282.1	9151.2	12410.6	15159.6	15221.4	11252.4
67.5°	650.8	682.9	780.5	1133.8	1950.9	3578.4	7522.2	11830.7	15740.3	15821.9	11351.6
70°	476.1	493.6	530.3	627.2	982.0	2078.4	5488.9	10516.1	14991.8	14961.2	10085.8
72.5°	365.5	392.9	420.4	459.3	564.6	1109.4	3417.4	8234.8	11962.0	11760.6	7539.0
75°	288.4	293.0	331.9	367.0	423.5	631.7	1517.6	4796.1	7300.9	6824.1	3909.5
77.5°	230.4	233.5	256.4	286.9	340.3	415.1	470.0	1886.8	2330.9	2079.9	848.4
80°	136.6	144.2	190.7	221.3	282.3	261.7	171.7	409.7	363.9	329.6	142.7
82.5°	76.3	82.4	107.6	174.7	196.8	125.1	85.5	110.6	85.5	83.2	40.4
85°	0.0	3.8	69.4	108.3	80.1	27.5	35.9	36.6	25.2	23.7	16.0
87.5°	0.0	0.0	21.4	20.6	3.1	4.6	8.4	12.2	9.9	9.9	8.4
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°	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1	1477.1
2.5°	1506.1	1464.9	1387.1	1310.8	1246.7	1194.1	1146.8	1127.7	1112.4	1110.1	1097.9
5°	1573.3	1490.1	1341.3	1219.2	1137.6	1079.6	1030.0	999.5	975.8	966.7	958.3
7.5°	1674.7	1548.8	1335.2	1194.8	1097.2	999.5	907.9	808.8	747.0	723.3	709.6
10°	1798.3	1626.7	1358.1	1188.0	1017.1	811.0	659.2	533.3	482.2	465.4	460.8
12.5°	1942.5	1723.6	1397.8	1145.2	846.1	576.0	454.7	412.0	400.6	395.2	395.2
15°	2108.1	1829.6	1426.0	1021.6	625.6	435.7	393.7	373.9	361.7	354.8	355.5
17.5°	2277.5	1933.4	1412.3	842.3	461.6	387.6	356.3	334.9	318.2	311.3	309.8
20°	2448.4	2029.5	1336.0	627.2	390.6	351.7	316.6	293.0	276.2	269.3	267.8
22.5°	2625.4	2111.2	1201.7	460.1	351.0	312.1	277.7	254.1	238.0	231.9	228.9
25°	2797.8	2177.5	1014.0	372.3	313.6	274.7	241.9	219.7	205.2	199.1	198.4
27.5°	2958.8	2219.5	796.5	328.8	280.8	241.1	211.3	191.5	179.3	174.7	174.0
30°	3103.8	2223.3	589.0	296.8	251.8	212.1	184.6	167.1	156.4	151.8	150.3
32.5°	3250.3	2191.3	428.8	267.8	225.1	186.9	160.2	146.5	138.9	135.0	135.0
35°	3388.4	2117.3	334.2	242.6	199.1	162.5	141.2	131.2	126.7	122.8	122.8
37.5°	3523.4	2011.2	283.8	220.5	174.7	141.9	124.4	118.3	114.4	110.6	110.6
40°	3660.8	1877.7	257.9	199.9	154.9	125.9	110.6	105.3	101.5	98.4	97.7
42.5°	3829.4	1723.6	241.1	180.8	137.3	111.4	97.7	91.6	88.5	85.5	83.9
45°	4024.7	1590.8	227.4	161.8	122.8	99.2	84.7	78.6	74.0	70.2	69.4
47.5°	4306.3	1494.7	209.1	141.2	109.1	86.2	73.2	66.4	59.5	55.7	54.9
50°	4665.6	1415.3	185.4	122.8	95.4	73.2	61.0	52.6	46.5	42.7	42.7
52.5°	4844.2	1311.6	164.0	106.8	80.1	61.8	49.6	39.7	36.6	32.8	32.8
55°	4915.9	1232.2	142.7	90.8	66.4	51.1	38.9	30.5	28.2	25.9	25.2
57.5°	5117.3	1209.3	124.4	77.1	54.9	40.4	29.8	22.9	21.4	18.3	18.3
60°	5441.6	1220.8	107.6	65.6	44.3	31.3	22.1	17.5	16.0	13.0	13.0
62.5°	5791.8	1206.3	90.8	56.5	34.3	22.9	15.3	13.0	13.0	7.6	6.9
65°	5858.9	1074.3	77.8	46.5	26.7	16.8	9.9	8.4	11.4	1.5	0.0
67.5°	5437.7	833.2	67.1	35.9	19.8	13.0	7.6	3.8	9.9	0.0	0.0
70°	4348.2	529.5	54.2	25.9	15.3	10.7	6.1	1.5	7.6	0.0	0.0
72.5°	3074.8	307.5	42.7	18.3	13.0	8.4	4.6	0.0	4.6	0.0	0.0
75°	1555.0	164.0	26.7	13.7	9.9	6.1	3.1	0.0	0.8	0.0	0.0
77.5°	336.5	76.3	16.8	9.9	6.9	3.8	1.5	0.0	0.0	0.0	0.0
80°	73.2	33.6	10.7	6.1	3.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	17.5	5.3	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	9.2	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.1	0.8	0.8	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)