

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: P321888

Luminaire Tested: **GAN-SA4C-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18484 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

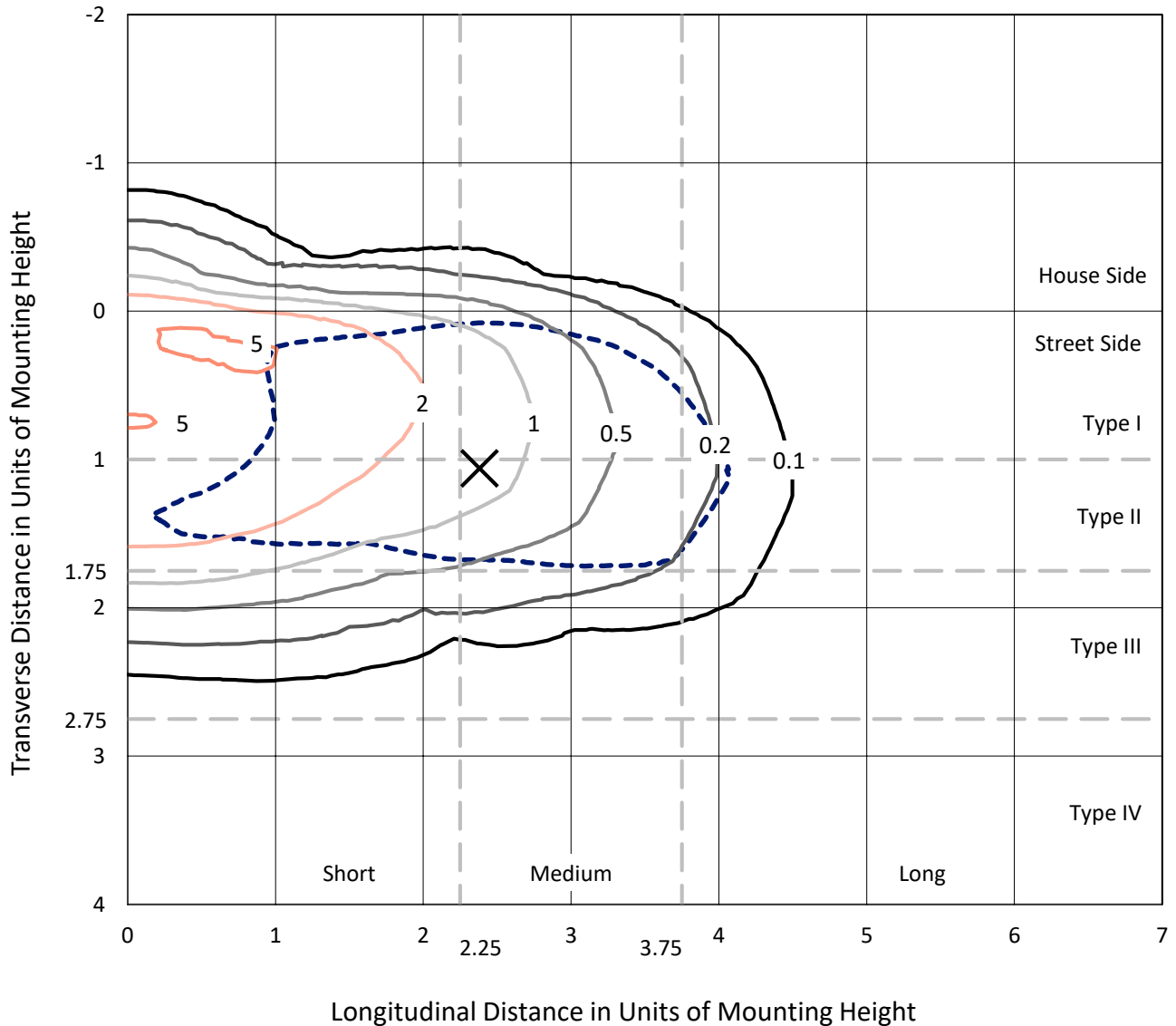
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

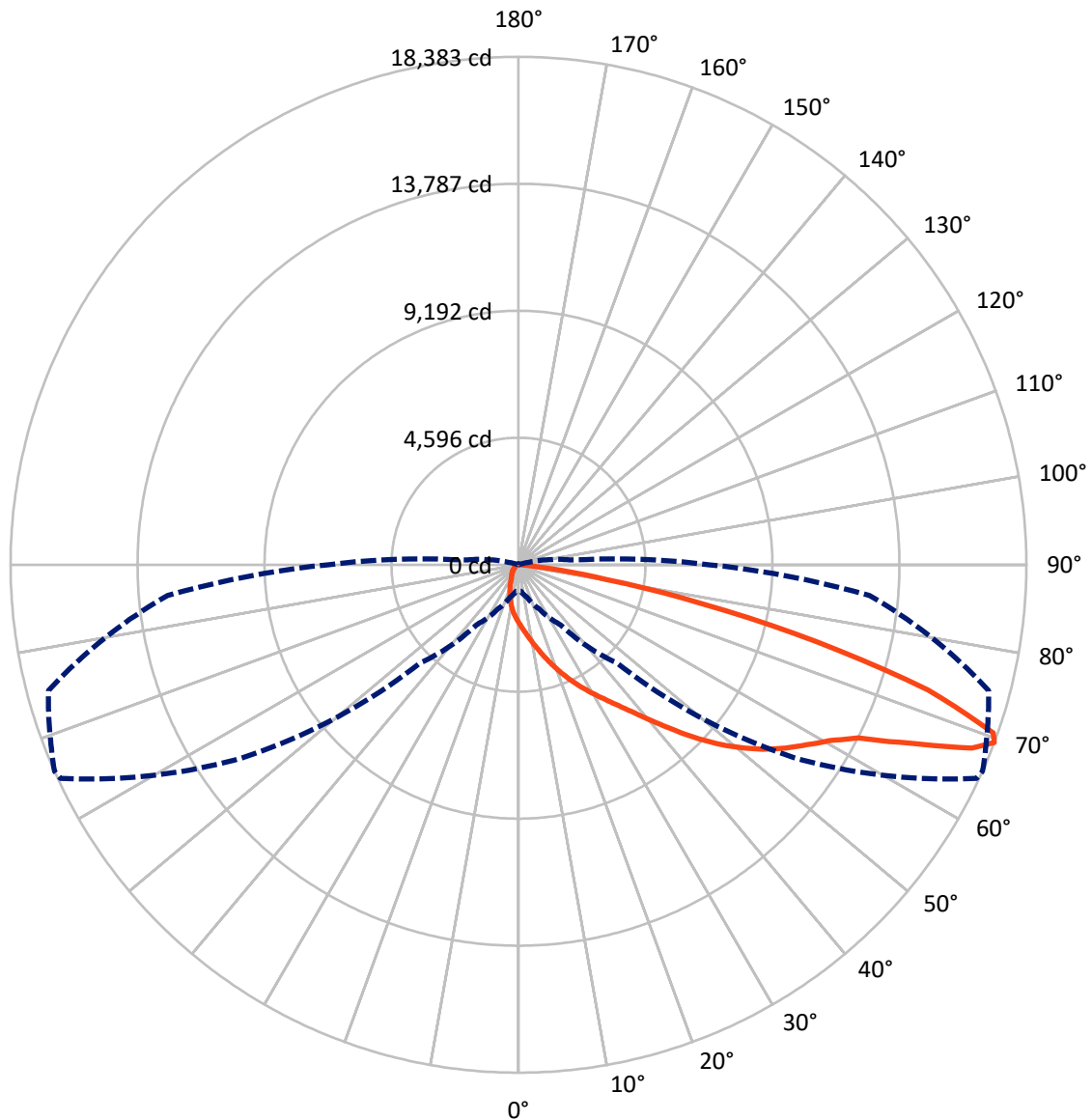
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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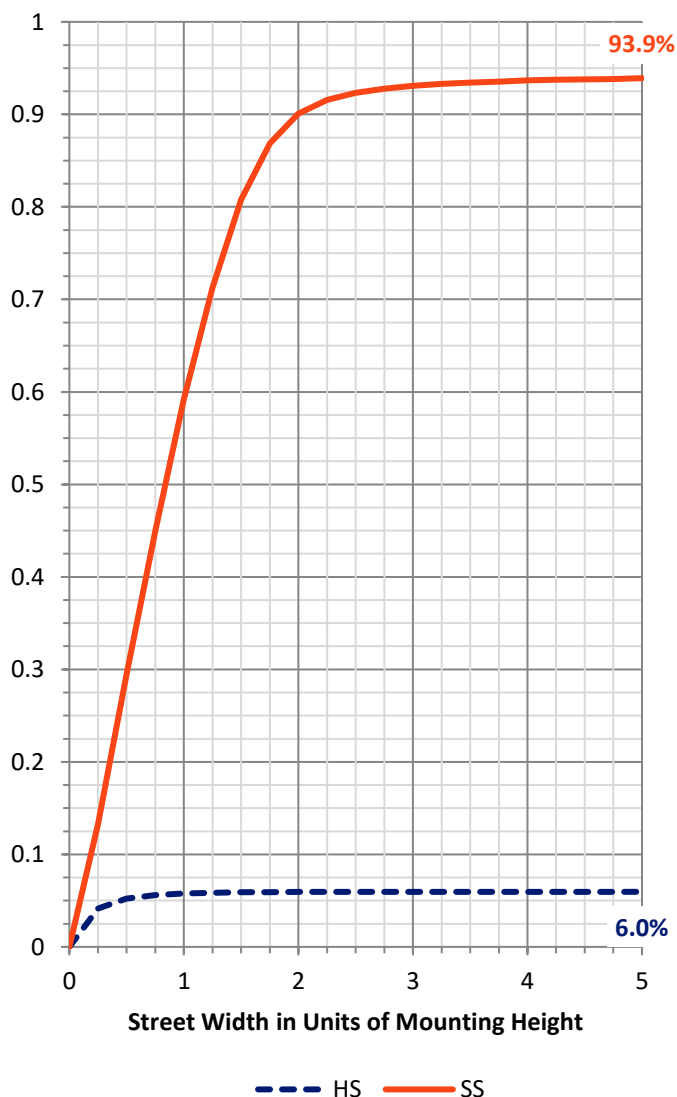
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1108.8	0.0	1108.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17375.2	0.0	17375.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	18484.0	0.0	18484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	1.1
10°-20°	605.2	3.3
20°-30°	1053.8	5.7
30°-40°	1848.9	10.0
40°-50°	3094.8	16.7
50°-60°	4549.0	24.6
60°-70°	4670.7	25.3
70°-80°	2305.8	12.5
80°-90°	152.5	0.8
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°	18484.0	100.0
0°-180°	18484.0	100.0

Coefficient of Utilization



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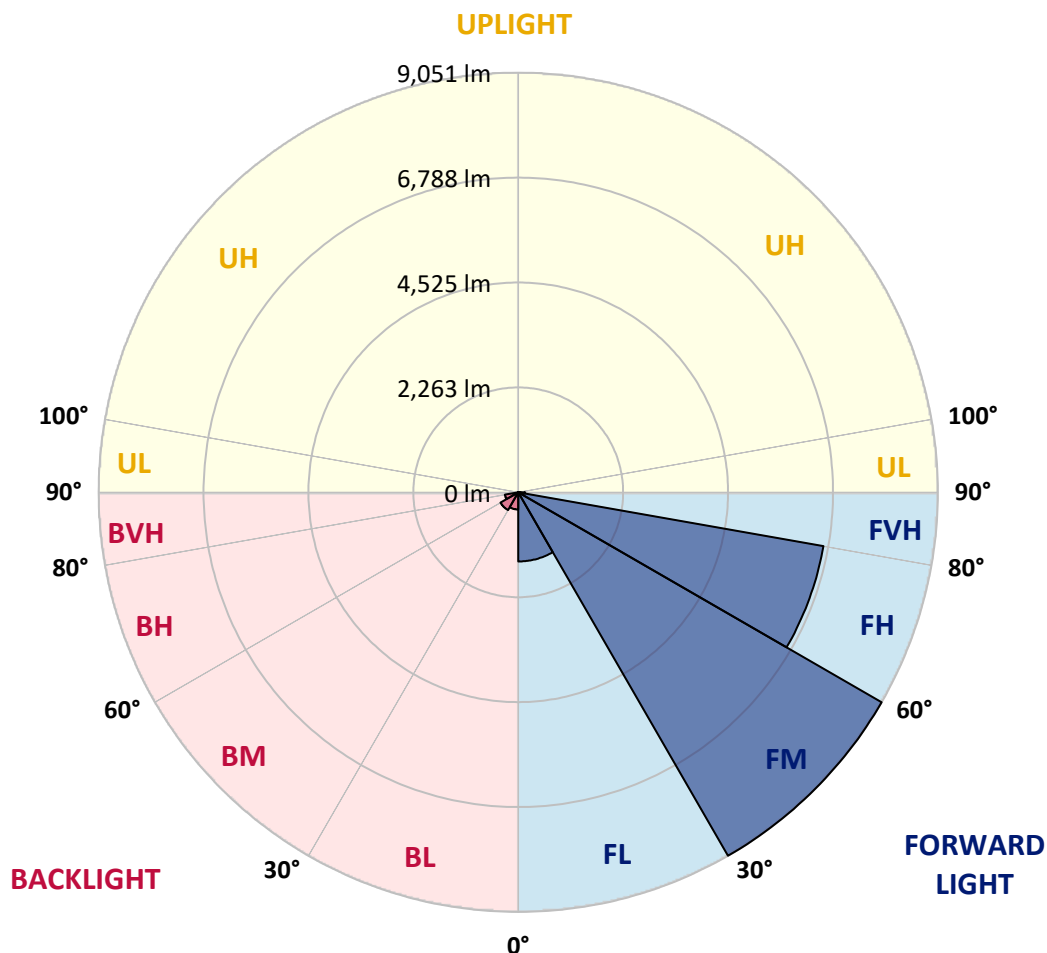
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.5	8.1			
FM (30°-60°)	9050.6	49.0			
FH (60°-80°)	6684.3	36.2			G3/7500
FVH (80°-90°)	148.8	0.8			G2/225
BL (0°-30°)	370.8	2.0	B1/500		
BM (30°-60°)	442.1	2.4	B1/1000		
BH (60°-80°)	292.2	1.6	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5
2.5°	2475.8	2465.2	2460.9	2441.5	2408.2	2382.7	2333.6	2276.5	2266.0	2210.6	2143.0
5°	2797.1	2788.3	2782.2	2755.0	2720.7	2656.6	2567.1	2460.9	2440.7	2335.3	2200.1
7.5°	3021.0	3036.8	3036.8	3019.2	2976.2	2927.9	2818.2	2673.3	2647.9	2486.3	2276.5
10°	3151.8	3171.1	3186.0	3201.0	3194.8	3175.5	3071.9	2908.6	2877.9	2663.7	2365.2
12.5°	3164.1	3183.4	3225.5	3287.9	3348.5	3392.4	3327.4	3169.4	3134.2	2869.1	2470.5
15°	3095.6	3115.8	3180.8	3301.9	3448.5	3576.7	3597.8	3458.2	3422.2	3114.0	2602.2
17.5°	2976.2	2989.4	3082.4	3250.1	3480.1	3715.4	3842.7	3768.1	3734.7	3394.1	2748.8
20°	2887.5	2897.2	2978.8	3158.8	3460.8	3802.3	4074.5	4097.3	4062.2	3694.4	2907.7
22.5°	3039.4	3057.0	3059.6	3144.8	3408.2	3845.4	4278.2	4421.3	4395.0	4013.1	3064.0
25°	3454.7	3474.9	3408.2	3355.5	3452.9	3864.7	4452.9	4753.2	4732.1	4356.3	3221.2
27.5°	4003.4	4024.5	3938.4	3781.3	3687.3	3937.6	4608.3	5090.3	5089.4	4719.8	3390.6
30°	4542.4	4563.5	4475.7	4318.6	4102.6	4143.9	4742.6	5443.2	5448.5	5094.7	3570.6
32.5°	5107.8	5134.2	5043.8	4841.8	4616.2	4500.3	4931.4	5797.9	5827.7	5529.3	3773.4
35°	5750.5	5754.0	5626.7	5415.1	5155.2	4977.0	5234.3	6195.6	6266.7	6067.4	4030.6
37.5°	6380.9	6406.3	6301.8	5968.2	5729.4	5527.5	5684.6	6692.5	6793.5	6725.0	4366.9
40°	6847.9	6901.5	6886.5	6526.6	6300.1	6156.1	6243.9	7283.4	7411.5	7490.6	4790.9
42.5°	7141.1	7181.5	7250.0	7033.2	6827.7	6851.4	6904.1	7971.7	8129.7	8363.2	5278.2
45°	7477.4	7496.7	7553.8	7458.1	7319.4	7558.2	7604.7	8746.9	8912.8	9301.7	5819.0
47.5°	7888.3	7933.9	7949.7	7861.9	7798.7	8183.3	8279.8	9451.9	9684.5	10307.0	6391.4
50°	8411.5	8423.8	8451.0	8394.0	8330.8	8720.6	8885.6	10192.0	10403.6	11315.7	6955.9
52.5°	8923.4	8967.3	9062.1	9026.1	9000.6	9178.0	9425.5	10859.2	11095.4	12156.8	7519.5
55°	9070.9	9108.6	9436.1	9659.9	9867.1	9741.6	9941.8	11457.1	11712.6	12908.3	8062.1
57.5°	8481.8	8558.1	9125.3	9708.2	10567.7	10617.8	10651.1	12070.8	12299.9	13484.2	8626.6
60°	6992.8	7007.7	7938.3	8938.3	10451.8	11382.5	11687.1	12730.1	12922.4	14020.7	9302.6
62.5°	4447.6	4599.5	5620.6	7032.3	9226.2	11271.8	12939.9	13727.4	13797.7	14664.2	10271.9
65°	2118.5	2216.8	2952.5	4344.9	6682.9	9855.7	13804.7	15531.6	15563.2	15939.8	11566.8
67.5°	1172.9	1220.3	1570.6	2338.8	3906.8	6969.9	13455.3	17668.5	17698.3	17242.7	12702.9
69°	917.4	957.8	1233.5	1762.9	2648.7	5009.5	12176.1	18294.5	18383.1	17615.8	12743.3
70°	778.7	818.2	1062.3	1489.0	2129.9	3870.8	10838.1	18139.1	18233.0	17580.7	12442.1
72.5°	476.7	499.5	707.6	1048.3	1427.5	1947.3	6683.7	15340.2	15499.1	16126.8	10693.3
75°	321.3	333.6	442.5	723.4	1021.0	1002.6	3472.2	10812.7	11156.8	12544.9	7897.9
77.5°	230.0	241.4	296.7	467.9	715.5	662.0	1572.4	6719.7	6793.5	7523.9	4307.2
80°	130.8	141.3	209.8	278.3	485.5	441.6	625.1	3209.7	3246.6	3226.4	1438.1
82.5°	68.5	77.3	115.0	183.5	311.7	288.8	259.9	1074.6	1079.9	898.1	315.2
85°	13.2	15.8	57.1	125.5	160.7	125.5	106.2	252.0	257.2	227.4	78.1
87.5°	0.0	0.9	22.8	28.1	31.6	32.5	34.2	49.2	52.7	71.1	21.1
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°	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5	2103.5
2.5°	2113.2	2081.6	2021.0	1950.8	1896.3	1842.8	1800.7	1756.8	1741.0	1733.0	1732.2
5°	2134.3	2067.5	1939.4	1807.7	1699.7	1597.8	1525.0	1455.6	1423.1	1408.2	1402.1
7.5°	2169.4	2062.3	1856.0	1654.9	1499.5	1372.2	1271.3	1195.8	1158.0	1142.2	1136.1
10°	2210.6	2055.3	1758.5	1493.4	1295.0	1163.3	1063.2	988.6	947.3	929.7	921.0
12.5°	2258.9	2043.0	1646.1	1330.1	1120.2	988.6	867.4	775.2	727.8	707.6	698.0
15°	2318.6	2030.7	1528.5	1176.4	966.6	805.9	673.4	611.0	601.4	597.9	598.8
17.5°	2377.5	2011.4	1400.3	1024.6	805.1	629.5	561.9	558.4	560.1	560.1	560.1
20°	2430.1	1967.5	1260.7	894.6	651.4	531.2	517.1	511.0	506.6	503.1	498.7
22.5°	2471.4	1908.6	1126.4	765.6	532.0	486.4	464.4	445.1	429.3	418.8	413.5
25°	2499.5	1830.5	1003.5	641.8	478.5	442.5	403.0	370.5	345.9	331.0	324.8
27.5°	2520.6	1746.2	893.7	537.3	441.6	391.6	339.8	301.1	275.7	262.5	257.2
30°	2535.5	1650.5	797.2	472.3	400.3	338.0	282.7	244.9	226.5	219.5	216.0
32.5°	2549.5	1544.3	705.9	441.6	361.7	288.8	237.0	208.1	196.7	187.9	185.2
35°	2584.6	1446.0	618.9	409.1	322.2	246.7	203.7	182.6	171.2	165.9	164.2
37.5°	2668.1	1373.1	535.5	375.8	282.7	213.3	178.2	163.3	152.8	147.5	145.7
40°	2802.4	1336.2	465.3	339.8	244.1	187.9	161.5	147.5	136.1	128.2	126.4
42.5°	2999.9	1341.5	416.1	303.8	213.3	167.7	145.7	129.1	116.8	109.7	108.0
45°	3239.6	1380.1	381.9	268.6	187.9	151.9	128.2	110.6	99.2	93.1	91.3
47.5°	3499.5	1442.5	353.8	237.0	167.7	137.0	110.6	92.2	82.5	77.3	76.4
50°	3773.4	1503.0	324.8	206.3	150.1	122.0	93.1	76.4	68.5	64.1	62.3
52.5°	4050.8	1573.3	298.5	178.2	135.2	104.5	77.3	62.3	56.2	52.7	50.9
55°	4349.3	1625.9	273.0	156.3	120.3	88.7	64.1	51.8	46.5	42.1	41.3
57.5°	4700.5	1707.6	246.7	135.2	102.7	73.7	52.7	41.3	36.9	32.5	31.6
60°	5174.6	1803.3	218.6	119.4	84.3	60.6	43.0	33.4	28.1	24.6	23.7
62.5°	5799.7	1909.5	183.5	104.5	68.5	49.2	34.2	26.3	20.2	15.8	15.8
65°	6592.4	2082.5	150.1	87.8	56.2	40.4	26.3	19.3	11.4	7.0	7.0
67.5°	7055.1	2112.3	121.2	72.0	45.7	34.2	21.9	13.2	3.5	0.9	0.0
69°	6906.7	1939.4	102.7	61.5	39.5	32.5	20.2	9.7	1.8	0.0	0.0
70°	6627.6	1773.4	90.4	54.4	36.0	30.7	19.3	7.0	1.8	0.0	0.0
72.5°	5476.6	1262.5	68.5	40.4	26.3	27.2	17.6	4.4	1.8	0.0	0.0
75°	3989.3	767.3	49.2	28.1	16.7	20.2	12.3	1.8	0.9	0.0	0.0
77.5°	2219.4	361.7	30.7	15.8	10.5	12.3	6.1	0.0	0.0	0.0	0.0
80°	720.8	98.3	14.0	8.8	6.1	7.0	2.6	0.0	0.0	0.0	0.0
82.5°	133.4	28.1	7.9	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.0	11.4	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	0.9	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)