

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: P456191

Luminaire Tested: **GLAN-SA7B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22783 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

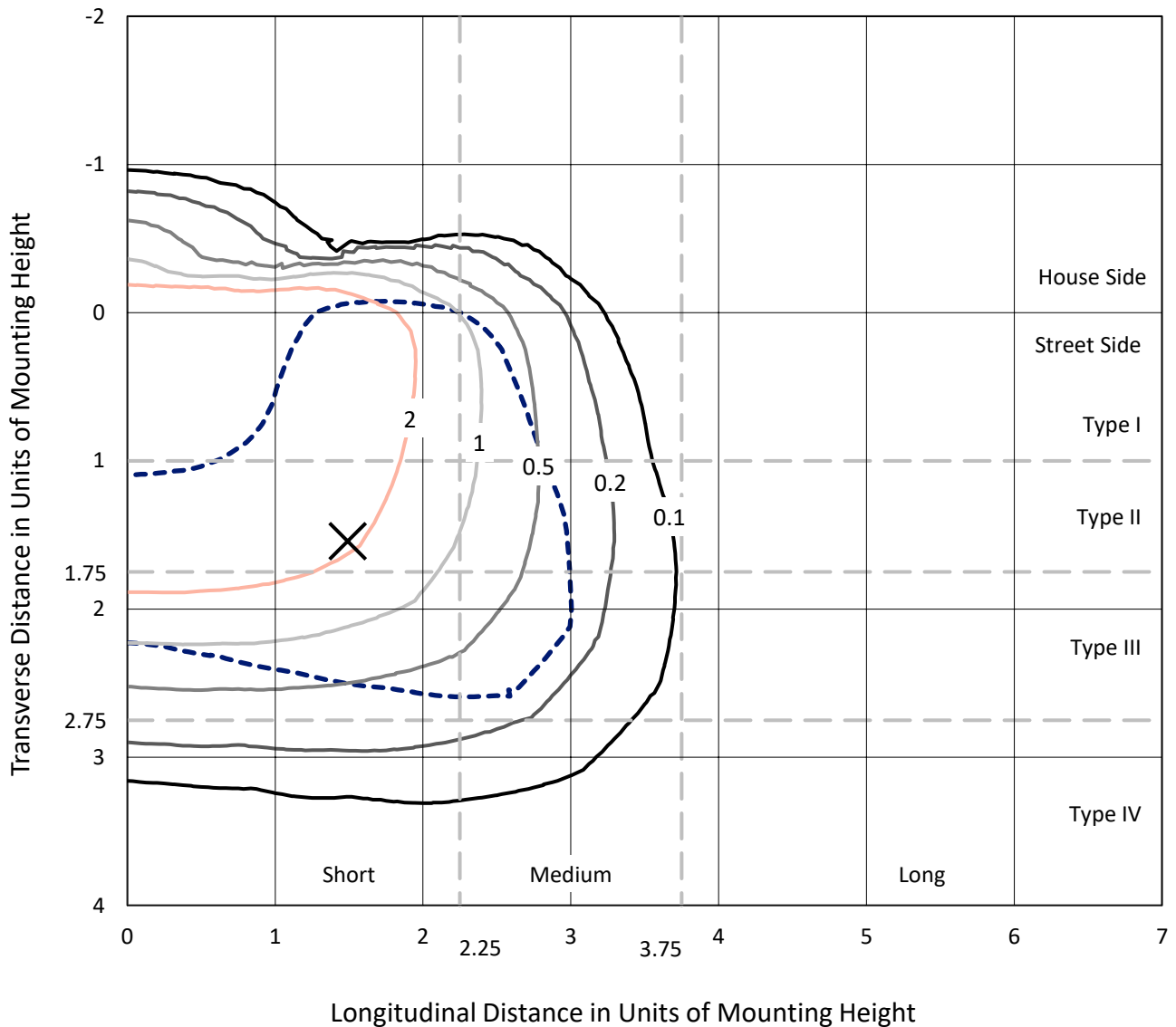
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

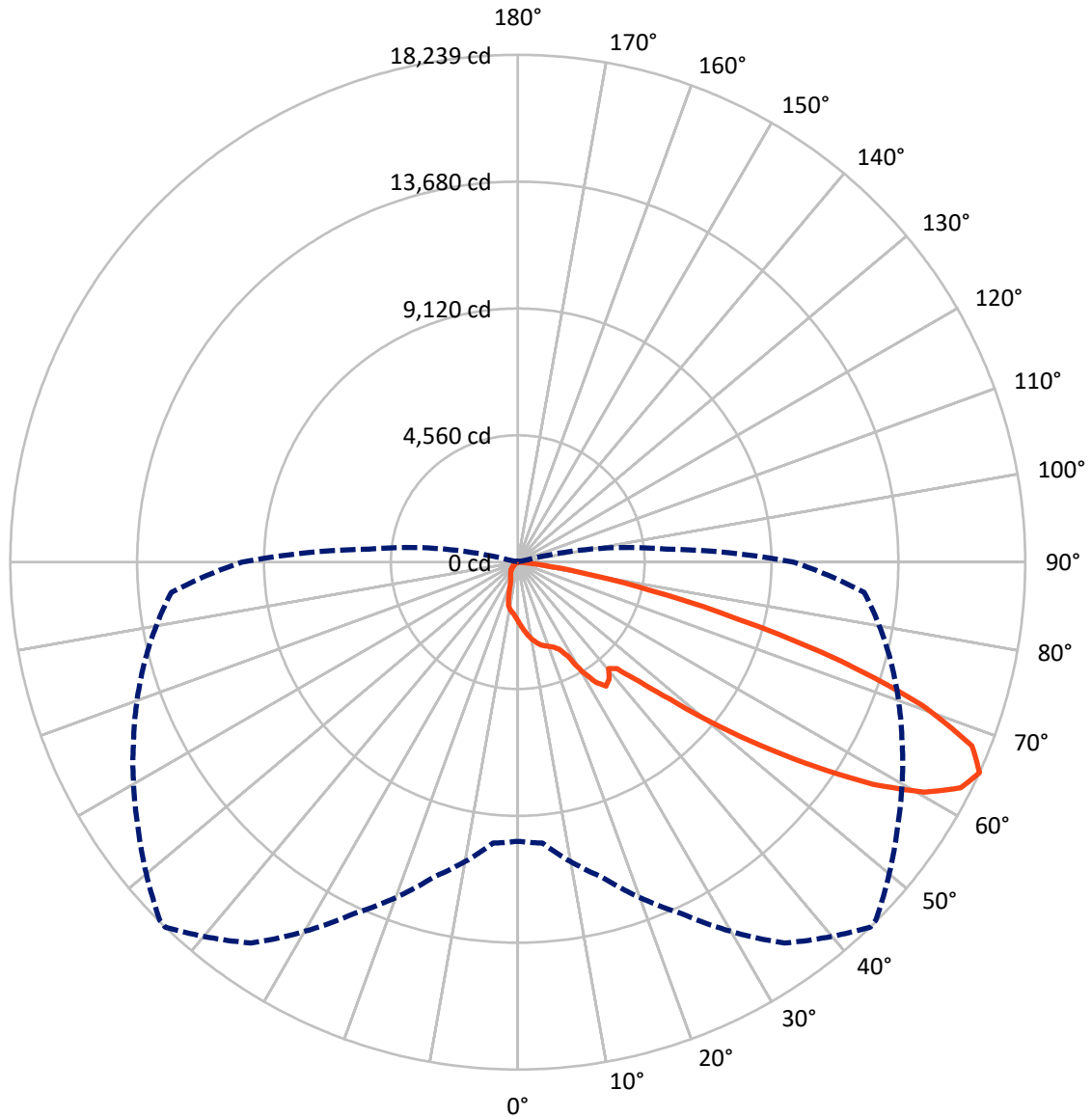
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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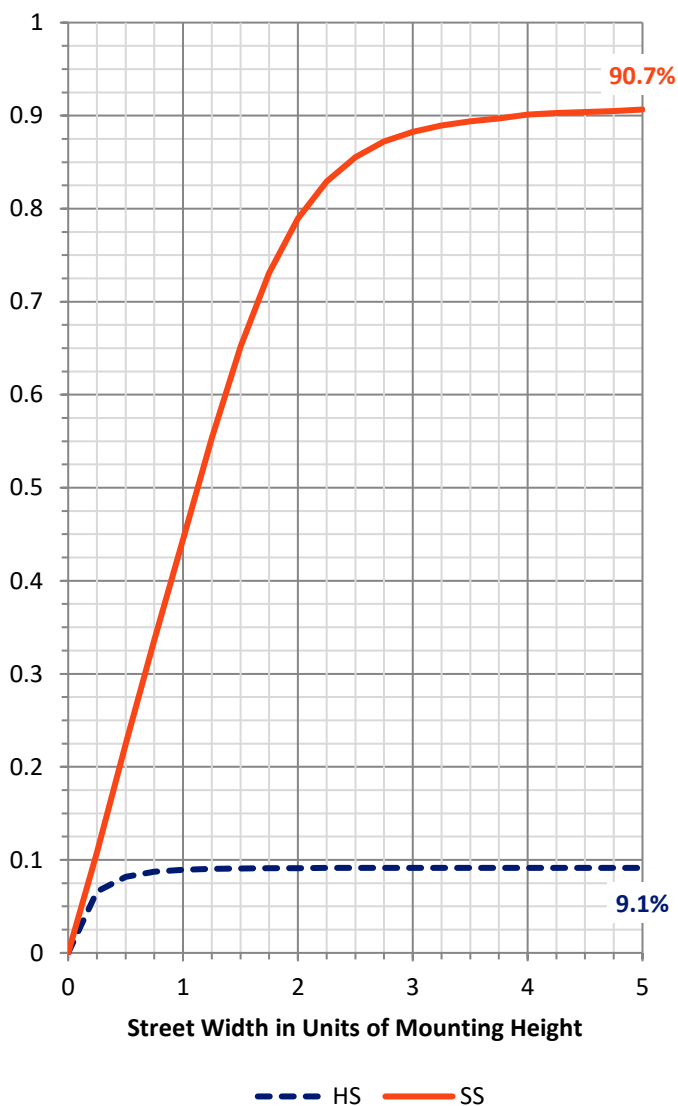
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2099.1	0.0	2099.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20683.9	0.0	20683.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	22783.0	0.0	22783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	0.9
10°-20°	634.7	2.8
20°-30°	1076.3	4.7
30°-40°	1789.5	7.9
40°-50°	3124.5	13.7
50°-60°	6104.1	26.8
60°-70°	7082.2	31.1
70°-80°	2579.0	11.3
80°-90°	181.7	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°	22783.0	100.0
0°-180°	22783.0	100.0

Coefficient of Utilization



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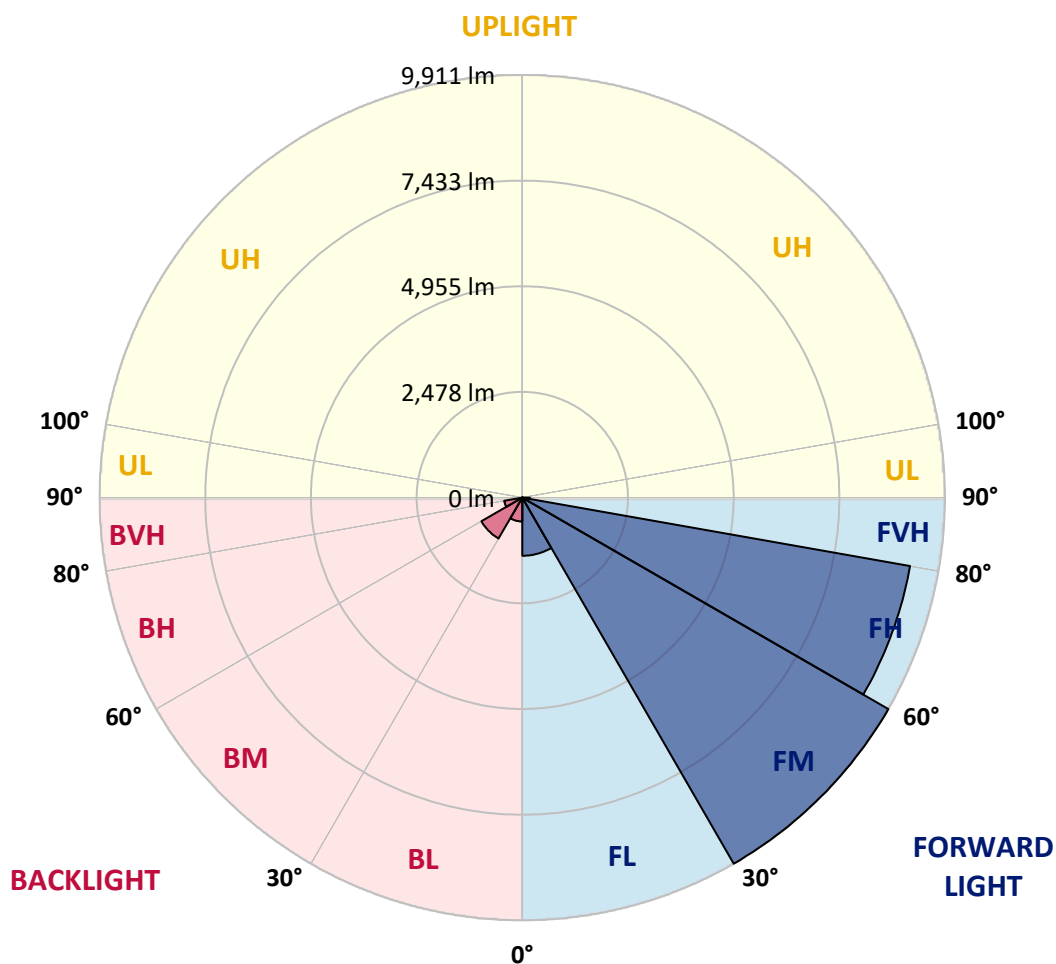
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.6	6.0			
FM	(30°-60°)	9910.6	43.5			
FH	(60°-80°)	9231.4	40.5			G4/12000
FVH	(80°-90°)	179.2	0.8			G2/225
BL	(0°-30°)	559.3	2.5	B2/1000		
BM	(30°-60°)	1107.5	4.9	B2/2500		
BH	(60°-80°)	429.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2386.8	2376.3	2371.1	2343.3	2322.4	2296.2	2296.2	2263.2	2224.9	2183.1	2144.8
5°	2653.1	2635.7	2613.1	2588.7	2540.0	2470.3	2470.3	2400.7	2320.6	2249.2	2170.9
7.5°	2909.0	2893.4	2855.1	2808.1	2728.0	2654.9	2649.7	2548.7	2452.9	2345.0	2233.6
10°	3133.6	3121.4	3088.4	2997.8	2914.3	2818.5	2816.8	2703.6	2592.2	2459.9	2322.4
12.5°	3290.3	3292.0	3248.5	3161.5	3053.5	2963.0	2956.1	2844.6	2728.0	2585.2	2416.4
15°	3401.7	3401.7	3356.5	3259.0	3161.5	3081.4	3074.4	2976.9	2856.8	2701.9	2519.1
17.5°	3433.1	3443.5	3394.8	3307.7	3229.4	3159.7	3158.0	3076.2	2980.4	2830.7	2623.5
20°	3420.9	3431.3	3393.0	3325.1	3271.2	3231.1	3225.9	3192.8	3104.0	2963.0	2735.0
22.5°	3394.8	3405.2	3377.3	3337.3	3311.2	3323.4	3314.7	3342.5	3295.5	3124.9	2867.3
25°	3400.0	3410.4	3389.5	3366.9	3389.5	3464.4	3487.0	3607.1	3565.4	3330.3	3010.0
27.5°	3563.6	3584.5	3554.9	3565.4	3645.4	3819.5	3863.1	4070.2	3885.7	3591.5	3232.9
30°	3927.5	3913.5	3857.8	3908.3	4186.9	4555.9	4543.8	4510.7	4221.7	3892.7	3497.5
32.5°	4258.2	4246.1	4242.6	4460.2	4965.1	5144.4	5135.7	4815.3	4522.9	4237.4	3758.6
35°	4392.3	4345.3	4334.8	4862.3	5706.7	5469.9	5415.9	4940.7	4888.5	4613.4	4025.0
37.5°	4796.2	4763.1	4601.2	4928.5	5410.7	5332.4	5290.6	5156.5	5278.4	4945.9	4326.1
40°	5628.3	5536.1	5389.8	5069.5	4991.2	5024.2	5066.0	5433.4	5739.8	5400.3	4728.3
42.5°	6662.4	6641.5	6370.0	5772.8	5186.1	5231.4	5285.4	6011.3	6403.0	6084.5	5384.6
45°	7903.7	7933.3	7541.6	6836.5	6067.0	6105.3	6183.7	6864.4	7301.3	7148.1	6417.0
47.5°	9031.8	9009.2	8876.9	8143.9	7433.6	7348.3	7475.4	7959.4	8544.3	8568.7	7698.3
50°	10166.9	10287.0	10090.3	9803.0	9275.5	9096.2	9049.2	9286.0	10177.3	10060.7	9237.2
52.5°	11798.1	11860.8	11491.7	11418.6	11538.7	10957.2	10910.2	10967.7	11765.0	11364.6	10389.7
55°	12823.5	12786.9	12649.4	13220.4	13695.7	12969.7	12910.5	12679.0	13082.9	12285.5	11498.7
57.5°	13147.3	13199.5	13519.8	14552.2	15676.8	15060.5	14952.6	14294.5	14033.4	13143.8	12518.8
60°	13002.8	13098.5	13789.7	15325.2	16885.0	16792.7	16700.5	15595.0	14715.8	13861.1	13234.3
62.5°	11973.9	12108.0	13213.4	15187.6	17294.1	17870.4	17755.5	16406.3	15170.2	14209.2	13359.7
65°	10034.6	10133.8	11721.5	13939.4	16712.7	18239.4	18197.6	16660.4	15241.6	13890.7	12501.4
67.5°	7153.4	7491.1	8962.2	11747.6	14992.6	17609.2	17680.6	16355.8	14571.3	12513.6	10353.1
70°	4496.7	4726.5	5781.5	8410.3	12019.2	15448.8	15683.8	14961.3	12645.9	9754.3	6930.5
72.5°	2144.8	2315.4	3067.5	5323.7	8483.4	12155.0	12341.2	12282.1	9778.6	6145.4	3575.8
75°	955.8	1020.2	1464.1	2717.5	5476.9	8170.1	8652.3	8732.4	6110.6	3006.5	1391.0
77.5°	487.5	489.2	685.9	1316.1	2735.0	4874.5	4970.3	5250.6	3312.9	1324.8	484.0
80°	259.4	276.8	363.8	621.5	1418.8	2400.7	2388.5	2625.3	1469.3	649.4	161.9
82.5°	116.6	128.8	205.4	325.5	692.9	910.5	981.9	1074.1	630.2	414.3	71.4
85°	34.8	41.8	101.0	163.6	250.7	262.9	294.2	379.5	356.9	294.2	36.6
87.5°	5.2	5.2	41.8	45.3	36.6	47.0	48.7	54.0	114.9	107.9	19.1
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°	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2123.9	2111.7	2068.2	2031.6	2000.3	1981.1	1958.5	1944.6	1937.6	1932.4	1934.1
5°	2132.6	2103.0	2028.2	1969.0	1923.7	1875.0	1841.9	1822.7	1814.0	1800.1	1800.1
7.5°	2181.3	2134.3	2029.9	1939.4	1861.0	1794.9	1732.2	1709.6	1693.9	1690.4	1686.9
10°	2251.0	2191.8	2049.0	1923.7	1812.3	1721.8	1633.0	1554.6	1493.7	1457.1	1451.9
12.5°	2338.0	2252.7	2078.6	1913.3	1770.5	1610.3	1375.3	1216.9	1110.7	1077.6	1082.8
15°	2418.1	2325.8	2108.2	1904.5	1693.9	1335.3	1068.9	887.9	833.9	828.7	830.4
17.5°	2513.9	2404.2	2143.0	1892.4	1483.2	1020.2	793.9	745.1	755.6	773.0	771.2
20°	2613.1	2487.7	2184.8	1819.2	1183.8	767.7	701.6	706.8	722.5	738.1	741.6
22.5°	2719.3	2583.5	2233.6	1643.4	903.5	668.5	665.0	672.0	687.7	705.1	708.5
25°	2865.5	2703.6	2270.1	1413.6	684.2	618.0	625.0	637.2	651.1	670.2	673.7
27.5°	3053.5	2865.5	2289.3	1114.2	591.9	572.8	574.5	591.9	609.3	626.7	626.7
30°	3297.3	3058.8	2251.0	842.6	546.6	529.2	522.3	532.7	555.3	572.8	574.5
32.5°	3514.9	3241.6	2150.0	644.1	513.6	489.2	471.8	473.5	482.2	492.7	494.4
35°	3732.5	3419.1	1977.7	541.4	478.7	450.9	424.8	410.9	403.9	398.7	403.9
37.5°	4011.0	3640.2	1747.9	492.7	449.2	414.3	377.8	348.2	323.8	308.1	311.6
40°	4369.7	3946.6	1476.3	461.3	421.3	379.5	330.8	292.5	250.7	236.8	229.8
42.5°	4961.6	4411.4	1190.8	435.2	393.4	343.0	282.0	229.8	191.5	177.6	181.1
45°	5896.4	4998.1	917.5	407.4	365.6	302.9	236.8	181.1	149.7	142.8	146.2
47.5°	7136.0	5757.2	706.8	376.0	330.8	259.4	186.3	142.8	123.6	121.9	120.1
50°	8302.4	6464.0	590.2	341.2	289.0	215.9	153.2	120.1	107.9	106.2	106.2
52.5°	9357.3	6970.6	480.5	301.2	243.7	177.6	128.8	106.2	95.7	90.5	90.5
55°	10295.7	7301.3	390.0	252.4	191.5	141.0	111.4	95.7	83.6	76.6	74.9
57.5°	11004.2	7341.4	292.5	201.9	142.8	109.7	95.7	83.6	69.6	60.9	57.4
60°	11307.2	6994.9	215.9	153.2	106.2	87.0	76.6	67.9	52.2	43.5	41.8
62.5°	11002.5	6321.2	160.2	116.6	81.8	64.4	54.0	50.5	36.6	26.1	24.4
65°	9911.0	5348.0	127.1	88.8	60.9	47.0	34.8	33.1	22.6	12.2	10.4
67.5°	7940.3	4188.6	101.0	66.2	43.5	31.3	22.6	20.9	12.2	3.5	3.5
70°	5163.5	2677.5	81.8	48.7	27.9	20.9	13.9	10.4	7.0	1.7	0.0
72.5°	2553.9	1251.7	66.2	38.3	19.1	10.4	5.2	3.5	5.2	0.0	0.0
75°	990.6	445.7	48.7	26.1	10.4	5.2	3.5	0.0	1.7	0.0	0.0
77.5°	329.0	148.0	29.6	13.9	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	121.9	57.4	15.7	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	48.7	22.6	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	13.9	7.0	5.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	10.4	7.0	5.2	3.5	1.7	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)