

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: P322208

Luminaire Tested: **GAN-SA4C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322208
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-SA4C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18935 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

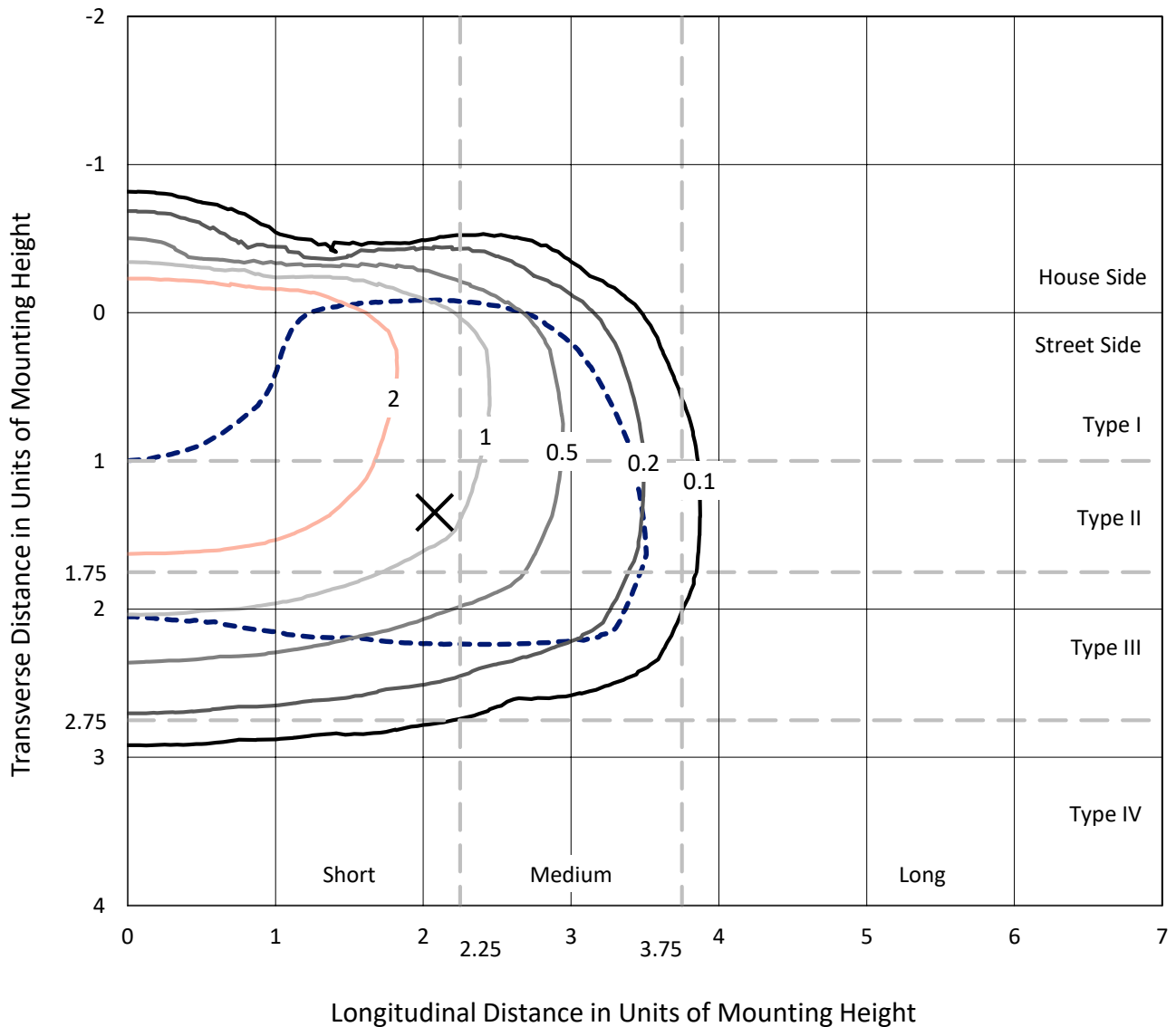
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

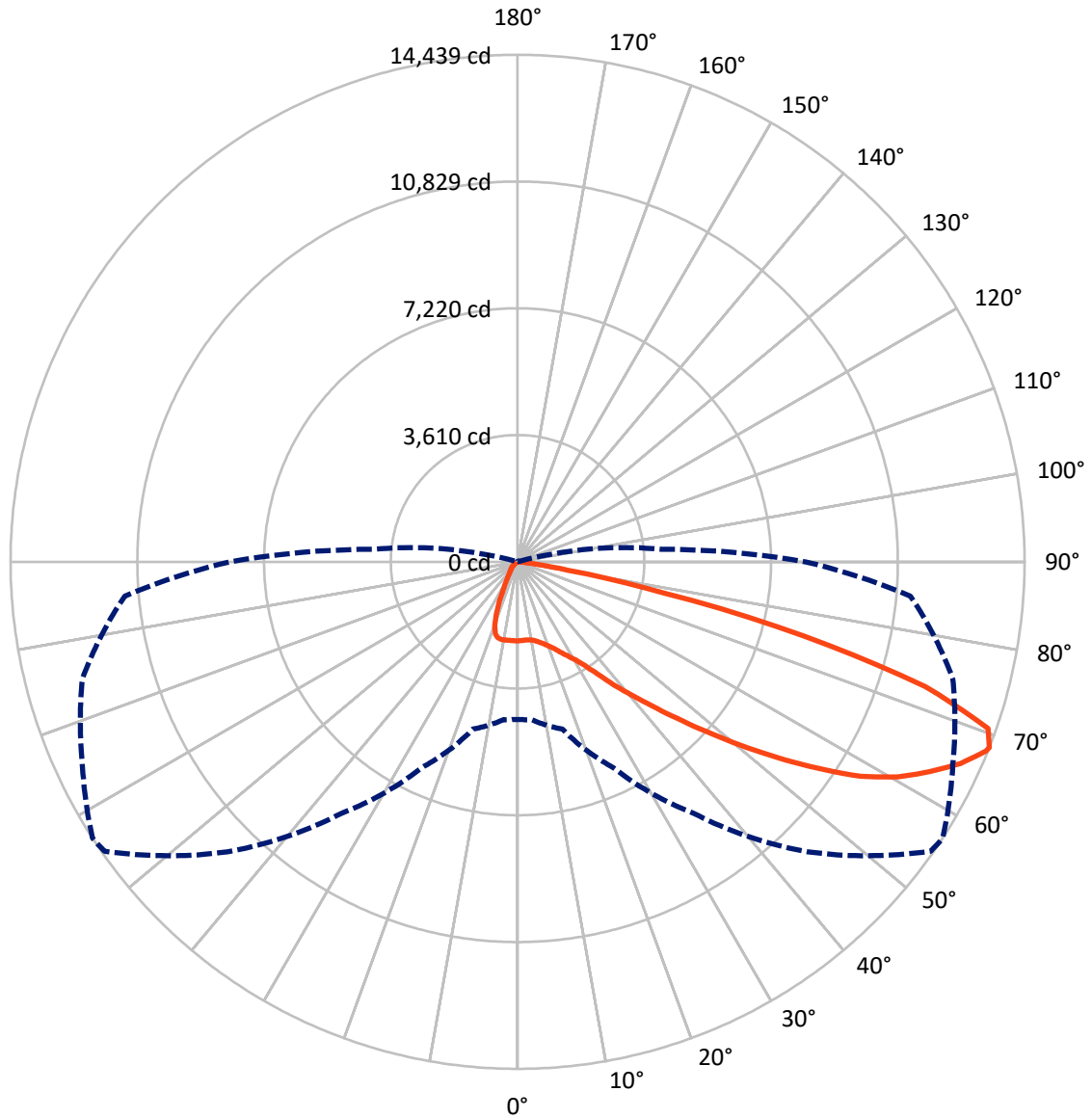
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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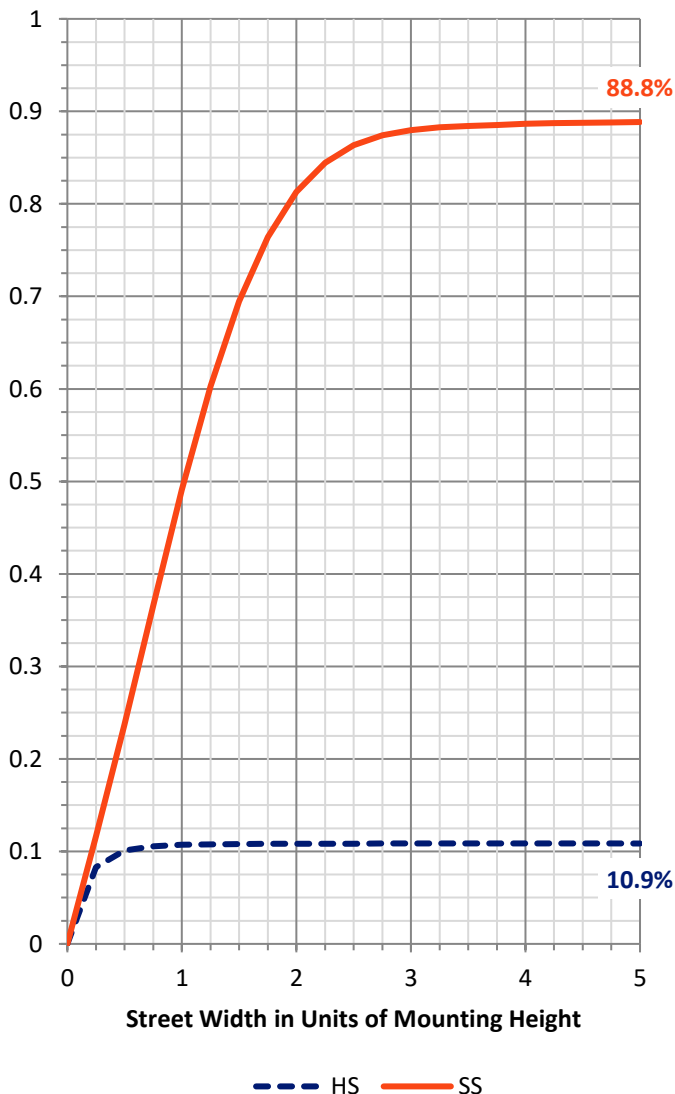
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.3	0.0	2076.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16858.7	0.0	16858.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	18935.0	0.0	18935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.1
10°-20°	583.5	3.1
20°-30°	1006.6	5.3
30°-40°	1737.3	9.2
40°-50°	2971.7	15.7
50°-60°	4754.4	25.1
60°-70°	5493.2	29.0
70°-80°	2099.0	11.1
80°-90°	78.7	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°	18935.0	100.0
0°-180°	18935.0	100.0

Coefficient of Utilization



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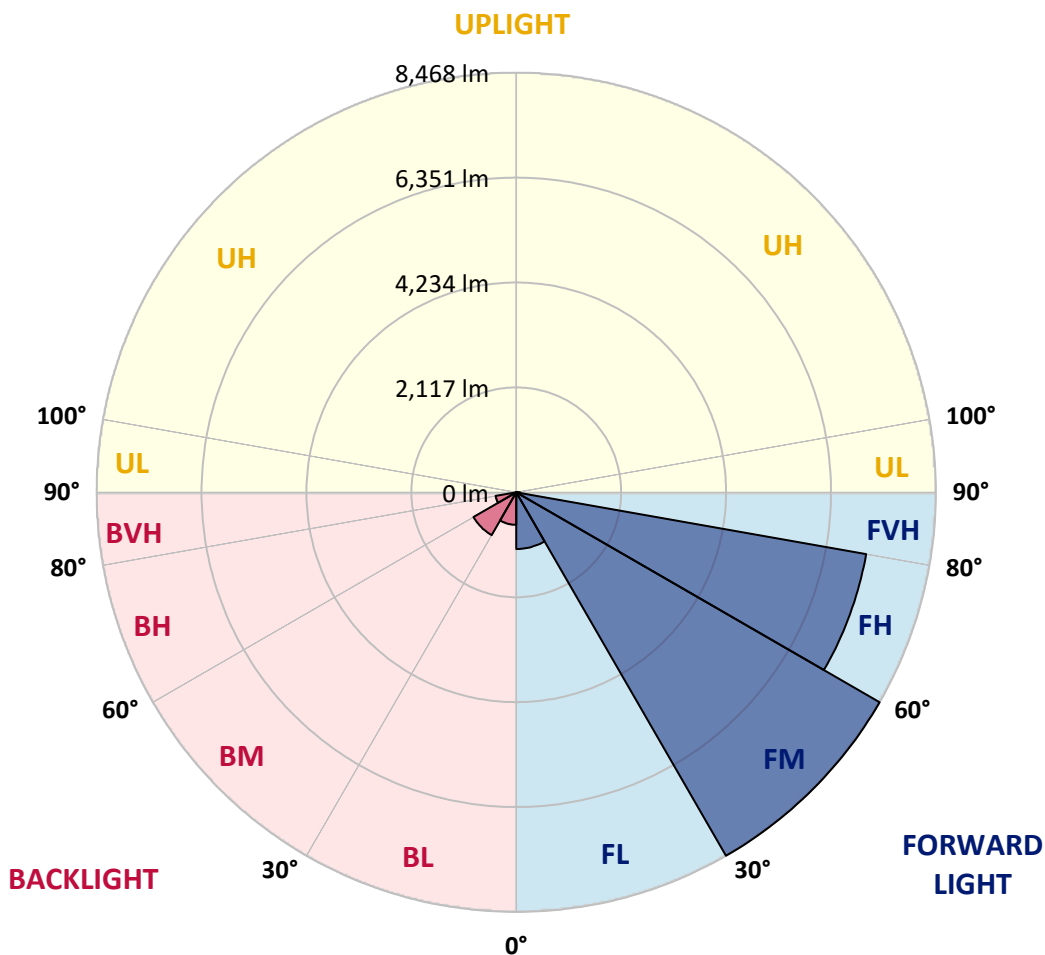
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.4	6.0			
FM (30°-60°)	8467.6	44.7			
FH (60°-80°)	7169.4	37.9			G3/7500
FVH (80°-90°)	77.3	0.4			G1/100
BL (0°-30°)	656.2	3.5	B2/1000		
BM (30°-60°)	995.9	5.3	B1/1000		
BH (60°-80°)	422.9	2.2	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0
2.5°	2197.2	2207.0	2214.2	2218.6	2224.0	2235.7	2239.2	2244.6	2247.3	2247.3	2253.6
5°	2110.3	2121.0	2136.3	2148.8	2173.9	2206.1	2229.4	2238.3	2254.5	2268.8	2276.8
7.5°	2029.7	2042.3	2060.2	2089.7	2132.7	2184.6	2233.0	2245.5	2276.8	2307.3	2322.5
10°	1977.8	1987.6	2010.9	2053.0	2109.4	2181.9	2250.0	2265.2	2318.9	2370.0	2398.6
12.5°	1959.9	1968.8	1993.0	2040.5	2110.3	2195.4	2289.4	2311.8	2390.5	2464.9	2505.1
15°	1985.9	1987.6	2013.6	2058.4	2127.3	2228.5	2354.7	2381.6	2481.0	2577.7	2627.8
17.5°	2086.1	2078.1	2091.5	2111.2	2165.8	2272.4	2423.7	2464.0	2596.5	2710.2	2757.6
20°	2336.8	2336.8	2306.4	2252.7	2253.6	2340.4	2516.8	2562.4	2724.5	2856.1	2899.1
22.5°	2765.7	2757.6	2696.7	2565.1	2444.3	2457.7	2630.5	2689.6	2878.5	3019.1	3033.4
25°	3281.4	3271.6	3177.5	2992.2	2782.7	2647.5	2784.5	2852.5	3062.0	3186.5	3157.0
27.5°	3827.6	3819.5	3726.4	3496.3	3198.1	2950.1	2968.0	3032.5	3249.2	3371.8	3277.8
30°	4356.7	4359.4	4267.2	4030.8	3693.3	3336.0	3200.8	3238.4	3430.9	3555.4	3421.1
32.5°	4859.9	4863.5	4783.8	4519.7	4204.5	3784.6	3523.1	3513.3	3642.2	3764.9	3610.9
35°	5308.4	5317.4	5262.8	5057.7	4723.8	4284.2	3941.3	3918.0	3942.2	4080.9	3901.9
37.5°	5740.9	5746.3	5705.1	5532.3	5252.9	4833.0	4469.5	4436.4	4384.5	4491.0	4286.0
40°	6214.5	6201.1	6153.6	5997.0	5757.0	5439.2	5037.2	4979.9	4889.4	4984.3	4790.9
42.5°	6655.0	6639.8	6647.9	6470.6	6268.2	6062.3	5698.8	5600.3	5547.5	5656.7	5410.5
45°	7205.7	7197.6	7224.5	7070.5	6906.6	6757.1	6457.2	6349.7	6326.4	6454.5	6159.9
47.5°	7749.1	7768.8	7852.1	7786.7	7720.5	7588.9	7260.3	7211.9	7226.2	7381.1	6950.5
50°	8202.2	8225.4	8453.8	8529.0	8624.8	8547.8	8218.3	8188.7	8245.1	8384.8	7801.1
52.5°	8529.9	8577.3	8861.1	9207.6	9556.8	9608.7	9280.1	9253.3	9329.4	9350.9	8458.2
55°	8757.3	8799.4	9120.8	9754.7	10465.6	10689.4	10485.3	10381.4	10367.1	10154.9	9149.4
57.5°	8797.6	8793.1	9255.1	10108.3	11178.3	11755.8	11626.8	11524.8	11231.1	10898.0	9941.8
60°	8570.1	8596.1	9132.4	10231.0	11625.9	12562.4	12572.3	12439.8	11982.3	11620.6	10710.0
62.5°	7870.0	7975.6	8517.3	9909.6	11620.6	12887.5	13265.3	13164.1	12617.1	12212.4	11488.9
65°	6734.7	6772.3	7288.9	8808.3	10835.3	12751.4	13889.3	13851.7	13189.2	12787.2	11889.2
67.5°	4918.1	4836.6	5379.2	6936.2	9173.6	11958.1	14337.0	14384.5	13630.6	12905.4	11463.0
68°	4488.3	4512.5	4935.1	6473.3	8738.5	11677.9	14366.5	14439.1	13674.5	12828.4	11230.2
70°	2675.3	2721.8	3098.8	4457.0	6647.9	10092.2	14047.8	14213.4	13413.0	12034.2	9713.5
72.5°	683.1	738.7	1095.0	1994.8	3797.1	7110.8	11858.7	12139.0	11645.6	9762.7	6557.4
75°	281.1	295.5	391.3	657.2	1414.6	3203.5	7816.3	8416.2	8073.2	5844.7	2963.6
77.5°	194.3	204.1	251.6	364.4	612.4	1086.0	3832.0	4265.4	3842.8	1994.8	646.4
80°	139.7	147.7	180.0	242.6	351.9	387.7	1249.0	1444.2	1146.9	437.8	160.3
82.5°	83.3	89.5	134.3	172.8	214.0	185.3	310.7	352.8	332.2	217.6	71.6
85°	41.2	48.3	90.4	123.6	115.5	77.9	94.9	105.6	130.7	132.5	38.5
87.5°	2.7	5.4	52.8	74.3	32.2	17.9	27.8	34.0	46.6	65.4	16.1
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°	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0	2250.0
2.5°	2256.2	2257.1	2250.9	2248.2	2250.0	2239.2	2234.8	2236.5	2236.5	2239.2	2234.8
5°	2278.6	2278.6	2267.9	2253.6	2245.5	2224.9	2211.5	2207.9	2205.2	2203.4	2199.8
7.5°	2327.0	2321.6	2302.8	2271.5	2244.6	2199.8	2165.8	2147.9	2139.0	2135.4	2132.7
10°	2404.9	2395.0	2363.7	2305.5	2243.7	2164.0	2089.7	2036.9	1993.0	1975.1	1964.4
12.5°	2509.6	2495.3	2442.5	2345.8	2237.4	2090.6	1929.4	1774.6	1630.4	1571.3	1541.8
15°	2630.5	2609.9	2526.6	2379.8	2200.7	1925.0	1574.9	1303.6	1103.9	1028.7	996.5
17.5°	2753.2	2726.3	2600.1	2401.3	2090.6	1582.1	1104.8	834.5	701.0	665.2	652.7
20°	2876.7	2837.3	2663.6	2385.2	1841.7	1140.7	728.8	609.7	571.2	560.5	556.9
22.5°	2994.0	2933.1	2720.9	2322.5	1458.5	765.5	576.6	539.0	526.5	520.2	518.4
25°	3096.1	3011.0	2771.1	2129.1	1032.3	578.4	519.3	506.8	490.6	479.0	479.9
27.5°	3191.9	3088.9	2801.5	1810.4	688.5	494.2	480.8	463.8	434.2	417.2	417.2
30°	3307.4	3192.8	2823.9	1393.1	506.8	436.9	426.2	400.2	359.9	337.5	337.5
32.5°	3481.1	3350.3	2809.6	977.7	419.9	384.1	359.0	323.2	279.3	257.9	257.0
35°	3747.0	3593.9	2707.5	641.1	370.7	334.0	293.7	249.8	211.3	193.4	192.5
37.5°	4105.1	3919.8	2478.3	458.4	332.2	287.4	239.1	190.7	162.1	150.4	149.5
40°	4569.8	4298.5	2150.6	371.6	296.4	242.6	184.4	147.7	128.0	119.1	120.0
42.5°	5127.6	4704.1	1757.5	320.5	261.4	199.7	144.1	116.4	103.9	97.6	95.8
45°	5747.2	5104.3	1345.7	285.6	226.5	161.2	112.8	92.2	82.4	78.8	78.8
47.5°	6428.5	5493.8	984.9	255.2	188.9	124.5	90.4	75.2	67.2	64.5	63.6
50°	7047.2	5764.2	710.0	222.9	154.9	98.5	73.4	62.7	57.3	53.7	53.7
52.5°	7562.9	5849.2	522.9	188.0	125.3	78.8	60.9	53.7	48.3	45.7	45.7
55°	8016.8	5814.3	388.6	154.9	101.2	64.5	51.9	45.7	41.2	38.5	38.5
57.5°	8452.0	5701.5	290.1	126.2	81.5	51.9	43.9	38.5	34.0	32.2	32.2
60°	8807.4	5513.5	215.8	102.1	65.4	42.1	36.7	31.3	27.8	25.1	25.1
62.5°	9095.7	5305.8	158.5	84.2	51.9	33.1	28.7	26.0	20.6	17.9	17.9
65°	9097.5	4961.1	119.1	69.8	40.3	26.0	21.5	20.6	13.4	10.7	9.8
67.5°	8439.4	4277.0	91.3	60.0	31.3	19.7	16.1	17.0	7.2	4.5	3.6
68°	8200.4	4103.3	86.0	59.1	29.5	18.8	15.2	17.0	6.3	3.6	2.7
70°	6913.8	3264.4	68.9	57.3	26.0	14.3	12.5	17.0	5.4	2.7	1.8
72.5°	4422.1	1894.5	51.0	45.7	19.7	10.7	8.1	15.2	5.4	1.8	0.9
75°	1882.0	587.3	34.9	32.2	11.6	8.1	5.4	9.8	3.6	0.9	0.0
77.5°	396.6	132.5	20.6	19.7	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.1	38.5	10.7	9.8	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.2	15.2	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	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)