

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: P383150

Luminaire Tested: **GAN-SA4D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383150
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-SA4D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 21247.7 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

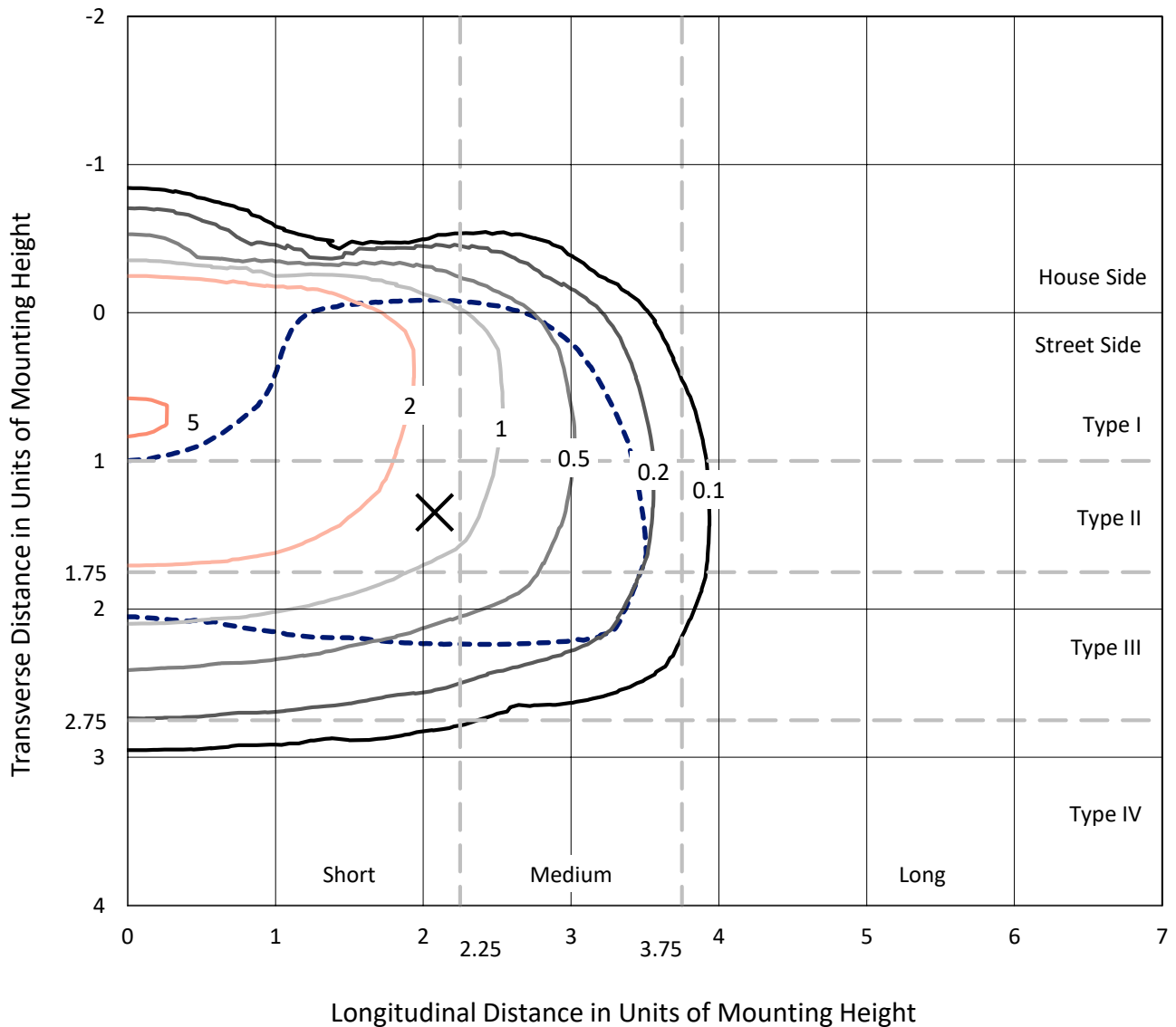
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

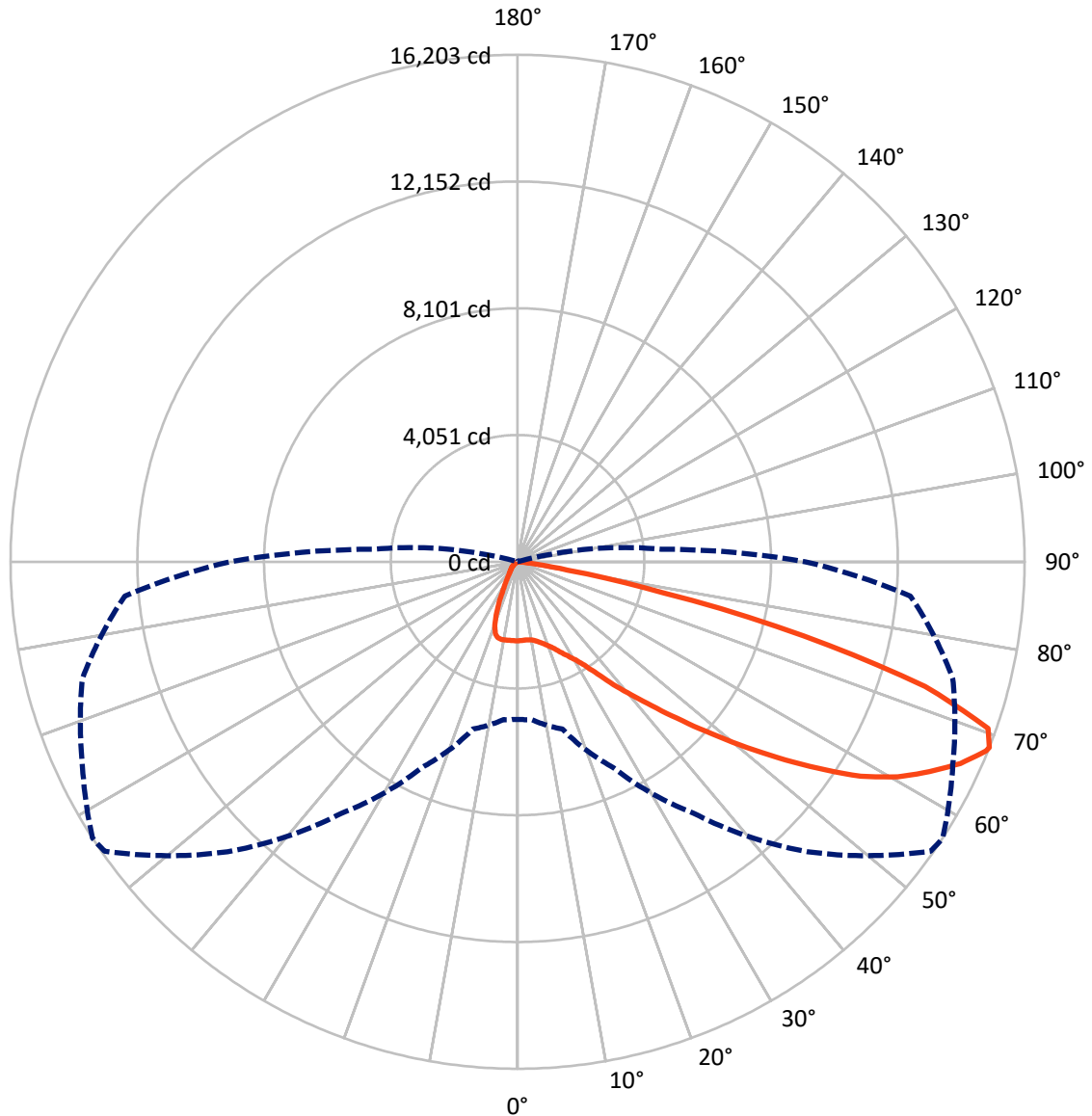
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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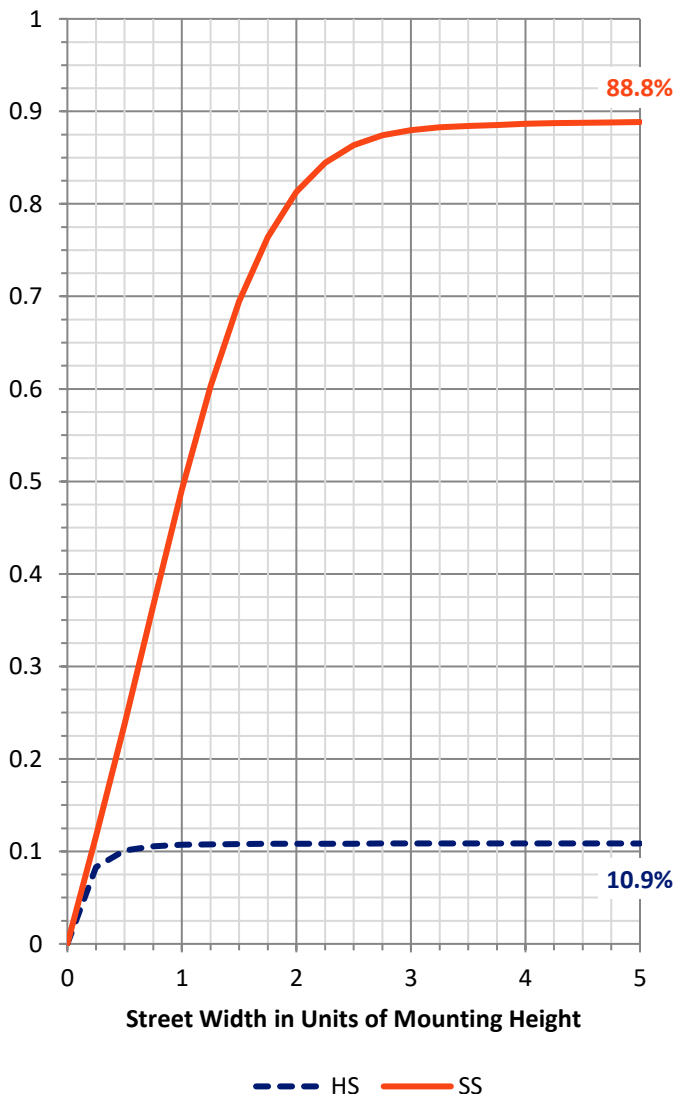
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2329.9	0.0	2329.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18917.7	0.0	18917.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	21247.7	0.0	21247.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	1.1
10°-20°	654.8	3.1
20°-30°	1129.5	5.3
30°-40°	1949.5	9.2
40°-50°	3334.6	15.7
50°-60°	5335.1	25.1
60°-70°	6164.2	29.0
70°-80°	2355.4	11.1
80°-90°	88.3	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°	21247.7	100.0
0°-180°	21247.7	100.0

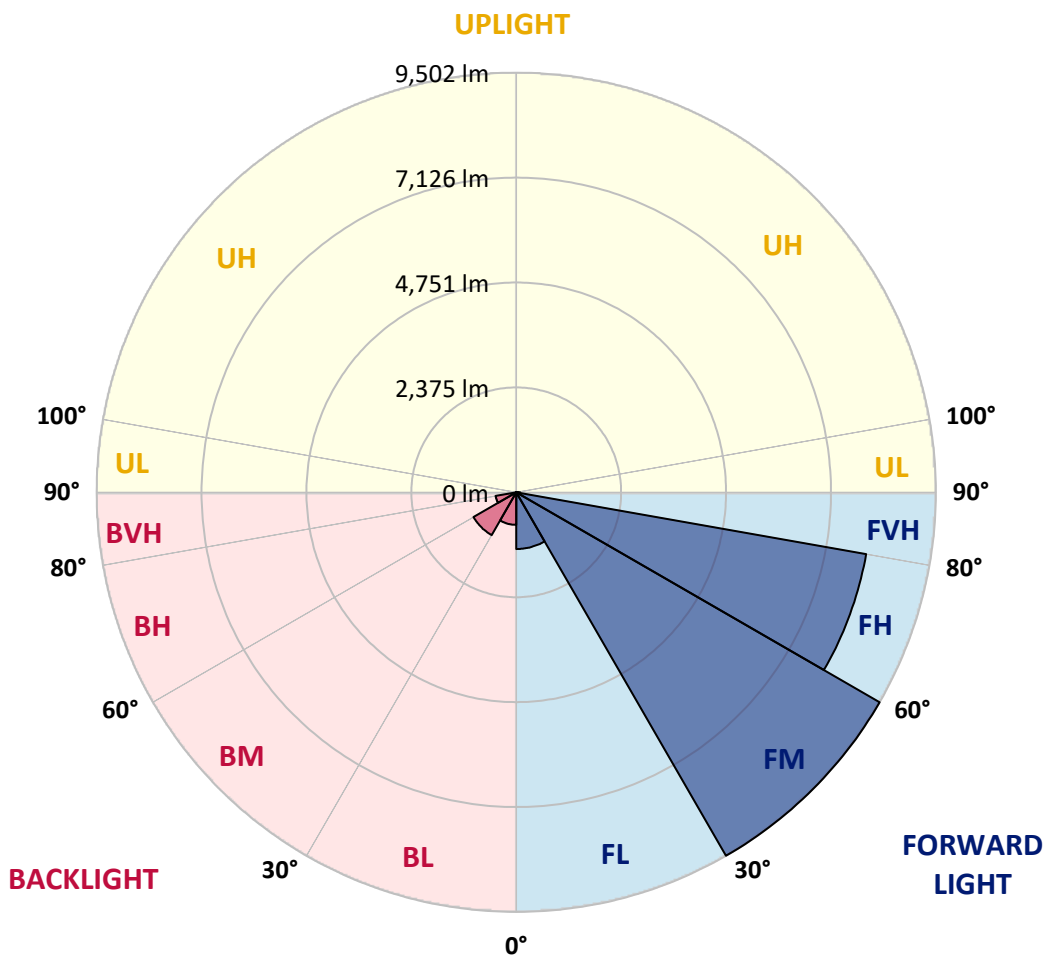


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.2	6.0			
FM (30°-60°)	9501.8	44.7			
FH (60°-80°)	8045.1	37.9			G4/12000
FVH (80°-90°)	86.7	0.4			G1/100
BL (0°-30°)	736.3	3.5	B2/1000		
BM (30°-60°)	1117.5	5.3	B2/2500		
BH (60°-80°)	474.5	2.2	B1/500		G1/500
BVH (80°-90°)	1.6	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°	45°	55°	57°	65°	75°	85°
0°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2465.5	2476.5	2484.6	2489.7	2495.6	2508.8	2512.8	2518.7	2521.8	2521.8	2528.8
5°	2368.1	2380.1	2397.2	2411.2	2439.4	2475.6	2501.7	2511.7	2529.8	2545.9	2555.0
7.5°	2277.6	2291.7	2311.8	2345.0	2393.1	2451.5	2505.7	2519.7	2555.0	2589.1	2606.2
10°	2219.3	2230.4	2256.5	2303.7	2367.1	2448.4	2524.8	2541.8	2602.2	2659.4	2691.5
12.5°	2199.3	2209.4	2236.5	2289.7	2368.1	2463.5	2569.0	2594.1	2682.5	2766.0	2811.1
15°	2228.4	2230.4	2259.6	2309.8	2387.2	2500.6	2642.3	2672.5	2784.0	2892.5	2948.7
17.5°	2340.9	2331.8	2346.9	2369.0	2430.3	2549.9	2719.7	2764.9	2913.6	3041.2	3094.4
20°	2622.2	2622.2	2588.1	2527.8	2528.8	2626.2	2824.2	2875.4	3057.2	3205.0	3253.2
22.5°	3103.5	3094.4	3026.1	2878.4	2742.8	2757.8	2951.8	3018.1	3230.0	3387.9	3403.9
25°	3682.2	3671.1	3565.7	3357.7	3122.5	2970.9	3124.6	3201.0	3436.0	3575.7	3542.5
27.5°	4295.1	4286.0	4181.5	3923.3	3588.8	3310.4	3330.6	3402.9	3646.0	3783.7	3678.1
30°	4888.9	4891.8	4788.3	4523.1	4144.4	3743.5	3591.8	3634.0	3850.0	3989.6	3838.9
32.5°	5453.5	5457.5	5368.0	5071.6	4718.0	4246.8	3953.5	3942.4	4087.1	4224.8	4052.0
35°	5956.8	5966.8	5905.5	5675.5	5300.8	4807.4	4422.6	4396.5	4423.6	4579.4	4378.5
37.5°	6442.0	6448.1	6401.9	6207.9	5894.6	5423.3	5015.5	4978.2	4920.0	5039.5	4809.5
40°	6973.6	6958.5	6905.2	6729.4	6460.2	6103.5	5652.4	5588.1	5486.6	5593.1	5376.1
42.5°	7467.8	7450.8	7459.8	7260.9	7033.8	6802.7	6394.9	6284.3	6225.1	6347.7	6071.4
45°	8085.7	8076.7	8106.8	7934.0	7750.2	7582.4	7245.9	7125.2	7099.1	7242.8	6912.3
47.5°	8695.6	8717.7	8811.1	8737.8	8663.4	8515.7	8147.0	8092.7	8108.8	8282.7	7799.4
50°	9204.0	9230.1	9486.2	9570.6	9678.1	9591.8	9222.0	9188.9	9252.2	9408.9	8753.8
52.5°	9571.7	9624.9	9943.4	10332.3	10724.1	10782.3	10413.6	10383.5	10468.8	10493.0	9491.3
55°	9826.9	9874.1	10234.7	10946.1	11743.8	11995.0	11765.9	11649.4	11633.3	11395.2	10267.0
57.5°	9872.1	9867.0	10385.5	11342.9	12543.6	13191.6	13046.9	12932.4	12602.8	12229.1	11156.0
60°	9616.9	9646.0	10247.9	11480.6	13045.9	14096.8	14107.8	13959.1	13445.8	13039.9	12018.1
62.5°	8831.3	8949.8	9557.6	11119.9	13039.9	14461.5	14885.5	14771.9	14158.0	13704.0	12892.2
65°	7557.3	7599.5	8179.2	9884.1	12158.7	14308.8	15585.7	15543.5	14800.1	14349.0	13341.3
67.5°	5518.8	5427.3	6036.1	7783.4	10294.1	13418.7	16088.1	16141.3	15295.4	14481.6	12863.0
68°	5036.5	5063.6	5537.9	7263.9	9805.7	13104.2	16121.3	16202.6	15344.6	14395.2	12601.8
70°	3002.0	3054.3	3477.2	5001.4	7459.8	11324.8	15763.6	15949.4	15051.2	13504.0	10899.9
72.5°	766.6	828.9	1228.7	2238.4	4260.9	7979.3	13307.1	13621.6	13068.0	10955.1	7358.4
75°	315.5	331.5	439.0	737.4	1587.5	3594.7	8770.9	9444.0	9059.3	6558.7	3325.5
77.5°	218.0	229.1	282.4	408.9	687.2	1218.7	4300.0	4786.3	4312.1	2238.4	725.4
80°	156.7	165.8	202.0	272.3	394.9	435.0	1401.5	1620.5	1287.0	491.3	179.9
82.5°	93.4	100.5	150.7	193.9	240.2	208.0	348.6	395.8	372.7	244.2	80.4
85°	46.2	54.2	101.4	138.6	129.6	87.4	106.5	118.6	146.7	148.7	43.2
87.5°	3.0	6.1	59.2	83.4	36.1	20.1	31.1	38.2	52.3	73.3	18.1
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°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2531.9	2532.8	2525.8	2522.8	2524.8	2512.8	2507.7	2509.7	2509.7	2512.8	2507.7
5°	2556.9	2556.9	2544.9	2528.8	2519.7	2496.6	2481.5	2477.5	2474.6	2472.5	2468.5
7.5°	2611.2	2605.2	2584.0	2548.9	2518.7	2468.5	2430.3	2410.3	2400.2	2396.2	2393.1
10°	2698.6	2687.5	2652.4	2587.1	2517.8	2428.4	2345.0	2285.6	2236.5	2216.3	2204.3
12.5°	2816.2	2800.0	2740.8	2632.3	2510.7	2345.9	2165.1	1991.3	1829.6	1763.2	1730.1
15°	2951.8	2928.7	2835.3	2670.5	2469.5	2160.1	1767.2	1462.8	1238.8	1154.4	1118.2
17.5°	3089.4	3059.3	2917.6	2694.6	2345.9	1775.3	1239.8	936.4	786.7	746.4	732.4
20°	3228.1	3183.8	2989.0	2676.5	2066.6	1279.9	817.8	684.2	641.0	629.0	624.9
22.5°	3359.7	3291.3	3053.2	2606.2	1636.6	859.0	647.1	604.9	590.8	583.7	581.8
25°	3474.2	3378.7	3109.5	2389.1	1158.4	649.0	582.7	568.6	550.5	537.5	538.5
27.5°	3581.7	3466.2	3143.7	2031.5	772.6	554.6	539.6	520.5	487.3	468.2	468.2
30°	3711.3	3582.7	3168.8	1563.3	568.6	490.3	478.3	449.1	403.9	378.8	378.8
32.5°	3906.3	3759.5	3152.7	1097.1	471.2	431.0	402.9	362.7	313.5	289.3	288.3
35°	4204.6	4032.9	3038.1	719.3	415.9	374.8	329.6	280.3	237.1	217.1	216.0
37.5°	4606.5	4398.5	2780.9	514.4	372.7	322.5	268.3	214.0	181.8	168.8	167.8
40°	5127.9	4823.6	2413.3	417.0	332.6	272.3	207.0	165.8	143.6	133.6	134.6
42.5°	5753.9	5278.6	1972.2	359.7	293.3	224.0	161.7	130.6	116.5	109.5	107.5
45°	6449.1	5727.7	1510.0	320.5	254.2	180.8	126.6	103.5	92.4	88.4	88.4
47.5°	7213.6	6164.8	1105.2	286.4	212.0	139.6	101.4	84.4	75.4	72.4	71.4
50°	7907.9	6468.2	796.8	250.2	173.8	110.5	82.3	70.3	64.3	60.3	60.3
52.5°	8486.6	6563.6	586.8	211.0	140.7	88.4	68.3	60.3	54.2	51.2	51.2
55°	8996.0	6524.5	436.1	173.8	113.6	72.4	58.3	51.2	46.2	43.2	43.2
57.5°	9484.3	6397.9	325.5	141.7	91.4	58.3	49.2	43.2	38.2	36.1	36.1
60°	9883.2	6186.9	242.1	114.6	73.3	47.2	41.2	35.1	31.1	28.1	28.1
62.5°	10206.6	5953.8	177.8	94.5	58.3	37.2	32.1	29.2	23.1	20.1	20.1
65°	10208.6	5567.0	133.6	78.3	45.2	29.2	24.1	23.1	15.1	12.0	11.1
67.5°	9470.2	4799.4	102.5	67.4	35.1	22.1	18.1	19.1	8.0	5.0	4.0
68°	9201.9	4604.5	96.4	66.3	33.2	21.1	17.0	19.1	7.0	4.0	3.0
70°	7758.2	3663.1	77.3	64.3	29.2	16.1	14.1	19.1	6.1	3.0	2.0
72.5°	4962.2	2125.9	57.3	51.2	22.1	12.0	9.0	17.0	6.1	2.0	1.0
75°	2111.8	659.1	39.2	36.1	13.0	9.0	6.1	11.1	4.0	1.0	0.0
77.5°	445.1	148.7	23.1	22.1	9.0	6.1	4.0	3.0	1.0	0.0	0.0
80°	114.6	43.2	12.0	11.1	5.0	3.0	2.0	0.0	0.0	0.0	0.0
82.5°	36.1	17.0	7.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	3.0	1.0	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)