

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: P321889

Luminaire Tested: **GAN-SA5C-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321889
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-SA5C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 22902 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 279
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

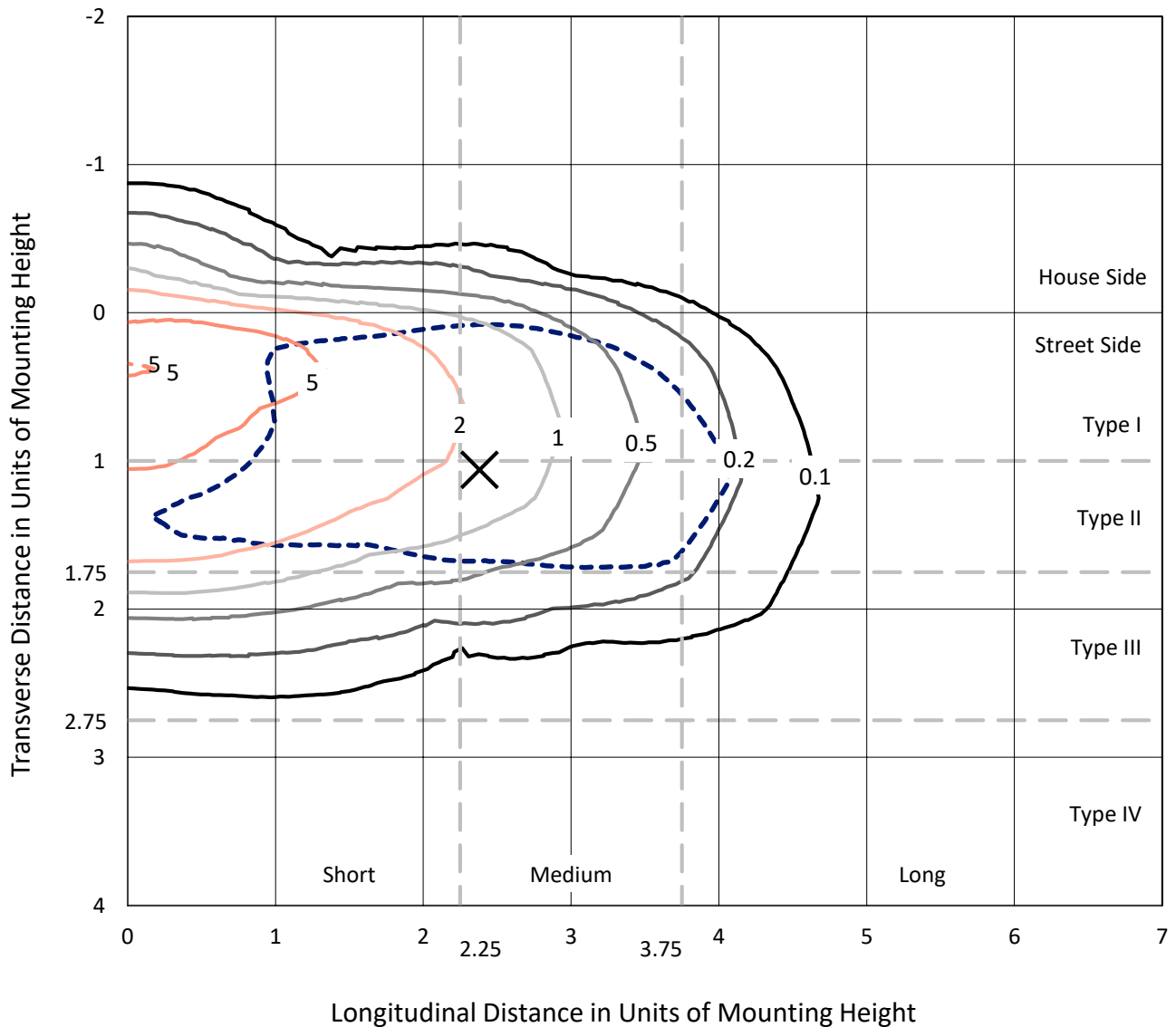




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Iso-Footcandle Lines of Horizontal Illumination

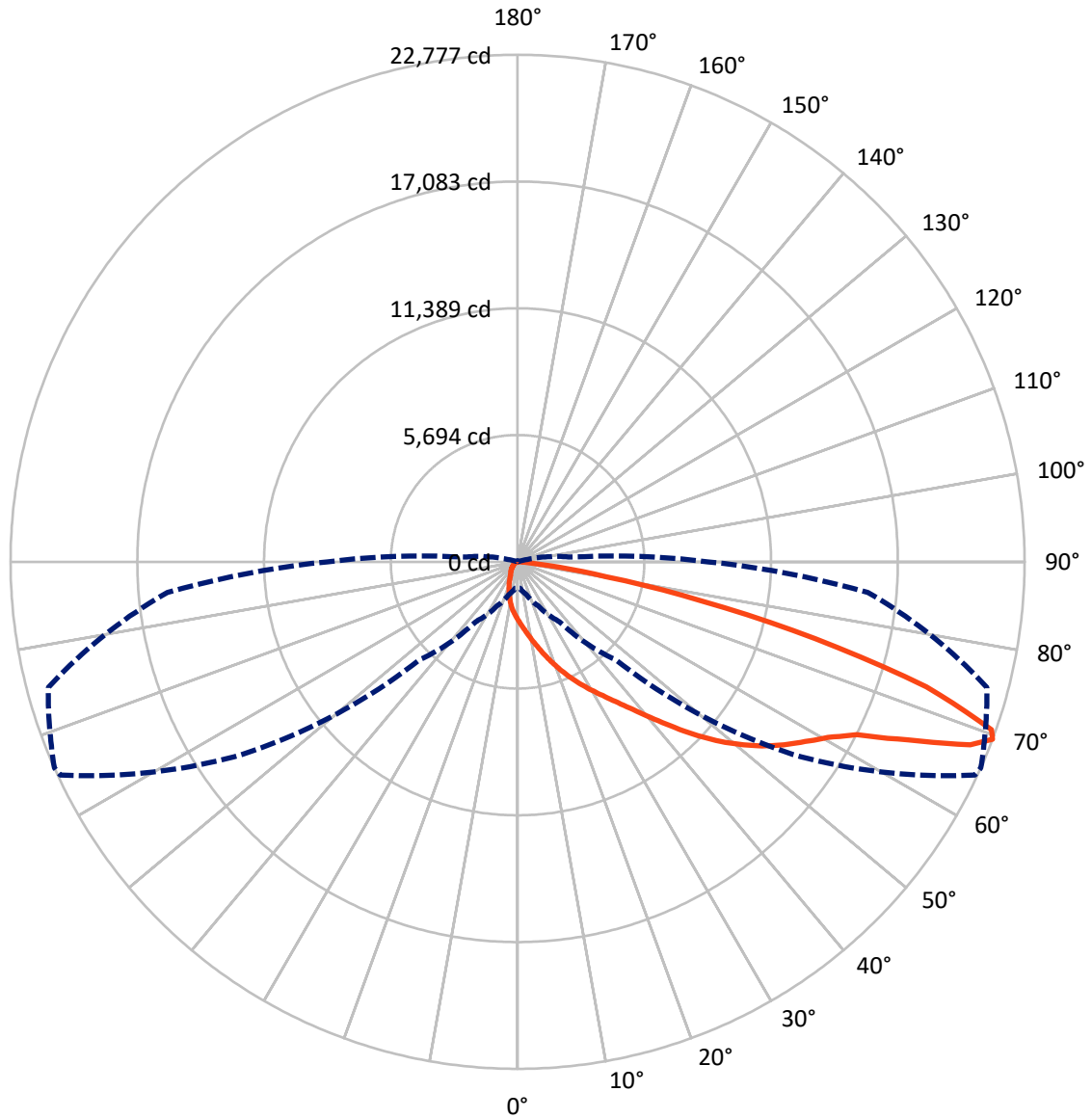
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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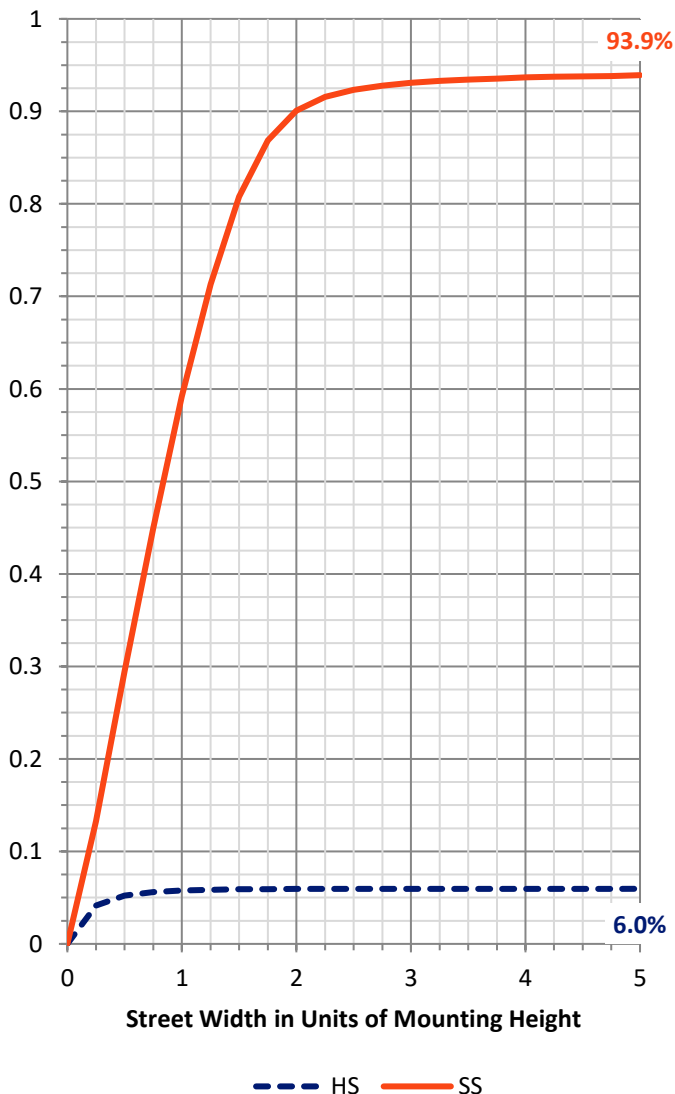
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.8	0.0	1373.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	21528.2	0.0	21528.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	22902.0	0.0	22902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	1.1
10°-20°	749.8	3.3
20°-30°	1305.7	5.7
30°-40°	2290.8	10.0
40°-50°	3834.5	16.7
50°-60°	5636.3	24.6
60°-70°	5787.1	25.3
70°-80°	2856.9	12.5
80°-90°	188.9	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°	22902.0	100.0
0°-180°	22902.0	100.0

Coefficient of Utilization

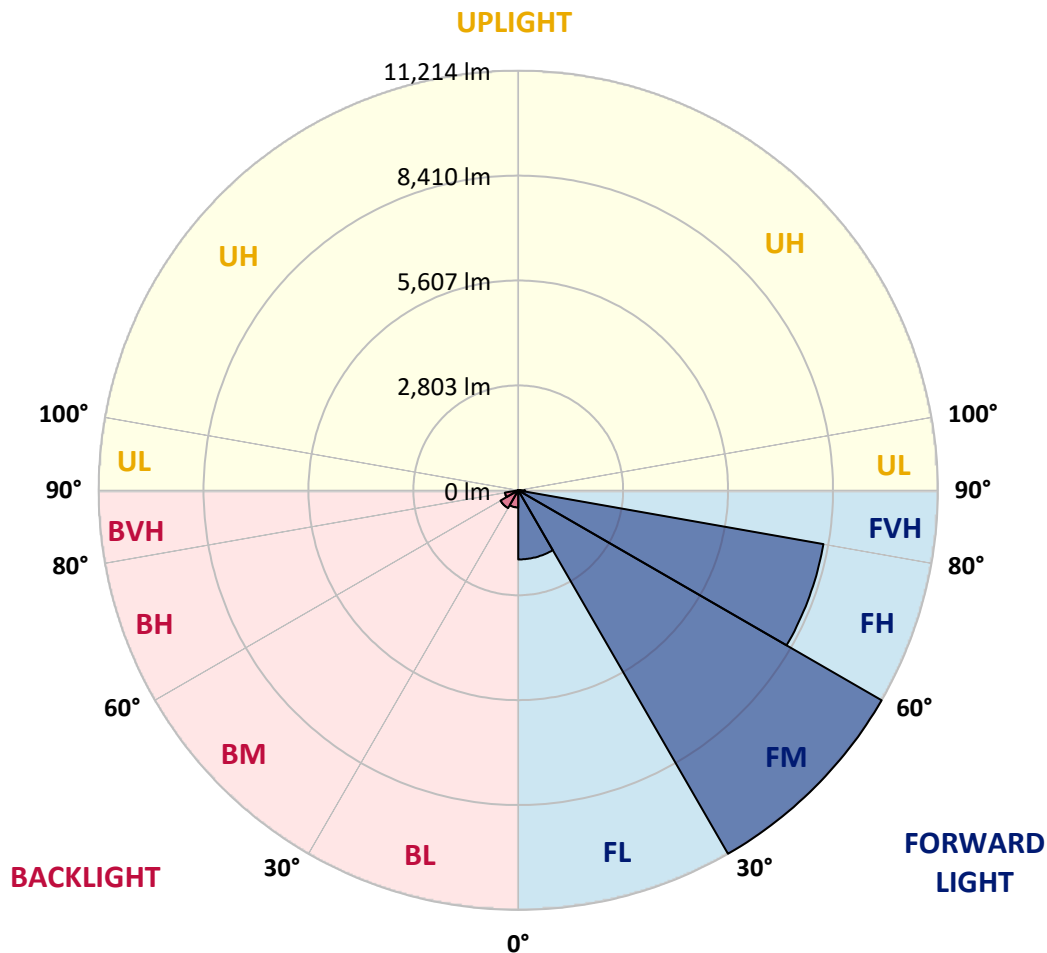


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.0	8.1			
FM (30°-60°)	11213.9	49.0			
FH (60°-80°)	8282.0	36.2			G4/12000
FVH (80°-90°)	184.3	0.8			G2/225
BL (0°-30°)	459.5	2.0	B1/500		
BM (30°-60°)	547.7	2.4	B1/1000		
BH (60°-80°)	362.0	1.6	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3
2.5°	3067.5	3054.5	3049.0	3025.1	2983.8	2952.2	2891.3	2820.6	2807.6	2739.0	2655.3
5°	3465.7	3454.8	3447.2	3413.5	3371.0	3291.6	3180.7	3049.0	3024.0	2893.5	2726.0
7.5°	3743.1	3762.6	3762.6	3740.9	3687.6	3627.7	3491.8	3312.3	3280.7	3080.6	2820.6
10°	3905.1	3929.1	3947.6	3966.0	3958.4	3934.5	3806.1	3603.8	3565.7	3300.3	2930.5
12.5°	3920.4	3944.3	3996.5	4073.7	4148.8	4203.2	4122.7	3926.9	3883.4	3554.9	3061.0
15°	3835.5	3860.5	3941.0	4091.1	4272.8	4431.6	4457.7	4284.8	4240.2	3858.4	3224.2
17.5°	3687.6	3703.9	3819.2	4027.0	4312.0	4603.5	4761.2	4668.8	4627.4	4205.4	3405.8
20°	3577.7	3589.7	3690.8	3913.8	4288.0	4711.2	5048.4	5076.7	5033.2	4577.4	3602.7
22.5°	3765.9	3787.7	3790.9	3896.4	4222.8	4764.5	5300.8	5478.1	5445.4	4972.2	3796.4
25°	4280.4	4305.4	4222.8	4157.5	4278.2	4788.4	5517.2	5889.2	5863.1	5397.6	3991.1
27.5°	4960.3	4986.4	4879.8	4685.1	4568.7	4878.7	5709.8	6306.9	6305.9	5847.9	4201.0
30°	5628.2	5654.3	5545.5	5350.8	5083.2	5134.3	5876.2	6744.2	6750.8	6312.4	4424.0
32.5°	6328.7	6361.3	6249.3	5999.1	5719.5	5576.0	6110.1	7183.7	7220.7	6850.8	4675.3
35°	7125.0	7129.3	6971.6	6709.4	6387.4	6166.6	6485.3	7676.5	7764.6	7517.6	4994.0
37.5°	7906.0	7937.5	7808.1	7394.7	7098.9	6848.7	7043.4	8292.1	8417.2	8332.4	5410.6
40°	8484.7	8551.0	8532.5	8086.6	7805.9	7627.5	7736.3	9024.2	9183.0	9280.9	5936.0
42.5°	8848.0	8898.0	8982.9	8714.2	8459.7	8489.0	8554.3	9877.0	10072.8	10362.2	6539.7
45°	9264.6	9288.6	9359.3	9240.7	9068.8	9364.7	9422.4	10837.6	11043.1	11525.0	7209.8
47.5°	9773.7	9830.3	9849.8	9741.1	9662.8	10139.2	10258.9	11711.0	11999.3	12770.5	7919.0
50°	10422.0	10437.3	10471.0	10400.3	10321.9	10804.9	11009.4	12628.0	12890.2	14020.4	8618.5
52.5°	11056.2	11110.6	11228.1	11183.5	11151.9	11371.7	11678.4	13454.8	13747.4	15062.5	9316.8
55°	11238.9	11285.7	11691.5	11968.8	12225.6	12070.0	12318.0	14195.5	14512.1	15993.6	9989.1
57.5°	10509.0	10603.7	11306.4	12028.7	13093.6	13155.6	13196.9	14955.9	15239.8	16707.2	10688.5
60°	8664.2	8682.7	9835.7	11074.7	12950.0	14103.1	14480.5	15772.8	16011.0	17371.8	11526.1
62.5°	5510.7	5698.9	6964.0	8713.1	11431.5	13966.0	16032.8	17008.5	17095.6	18169.2	12727.0
65°	2624.8	2746.6	3658.2	5383.4	8280.2	12211.4	17104.3	19243.9	19283.1	19749.7	14331.5
67.5°	1453.3	1512.0	1946.0	2897.8	4840.6	8635.9	16671.3	21891.6	21928.6	21364.0	15739.1
69°	1136.7	1186.8	1528.3	2184.3	3281.8	6206.9	15086.4	22667.2	22777.0	21826.3	15789.1
70°	964.9	1013.8	1316.2	1844.9	2639.0	4796.0	13428.6	22474.6	22591.0	21782.8	15416.0
72.5°	590.7	618.9	876.8	1298.8	1768.7	2412.7	8281.3	19006.8	19203.7	19981.4	13249.2
75°	398.1	413.4	548.2	896.3	1265.1	1242.2	4302.2	13397.1	13823.5	15543.3	9785.7
77.5°	285.0	299.1	367.7	579.8	886.5	820.2	1948.2	8325.9	8417.2	9322.3	5336.6
80°	162.1	175.1	260.0	344.8	601.5	547.2	774.5	3976.9	4022.6	3997.6	1781.8
82.5°	84.8	95.7	142.5	227.3	386.2	357.9	322.0	1331.4	1338.0	1112.8	390.5
85°	16.3	19.6	70.7	155.6	199.1	155.6	131.6	312.2	318.7	281.7	96.8
87.5°	0.0	1.1	28.3	34.8	39.2	40.2	42.4	60.9	65.3	88.1	26.1
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°	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3	2606.3
2.5°	2618.3	2579.1	2504.1	2417.0	2349.6	2283.3	2231.0	2176.6	2157.1	2147.3	2146.2
5°	2644.4	2561.7	2402.9	2239.7	2105.9	1979.8	1889.5	1803.5	1763.3	1744.8	1737.2
7.5°	2687.9	2555.2	2299.6	2050.5	1857.9	1700.2	1575.1	1481.6	1434.8	1415.2	1407.6
10°	2739.0	2546.5	2178.8	1850.3	1604.5	1441.3	1317.3	1224.8	1173.7	1152.0	1141.1
12.5°	2798.9	2531.3	2039.6	1648.0	1388.0	1224.8	1074.7	960.5	901.8	876.8	864.8
15°	2872.8	2516.0	1893.8	1457.6	1197.6	998.6	834.3	757.1	745.1	740.8	741.9
17.5°	2945.7	2492.1	1735.0	1269.4	997.5	779.9	696.2	691.8	694.0	694.0	694.0
20°	3011.0	2437.7	1562.1	1108.4	807.1	658.1	640.7	633.1	627.6	623.3	617.9
22.5°	3062.1	2364.8	1395.6	948.5	659.2	602.6	575.4	551.5	531.9	518.9	512.3
25°	3096.9	2268.0	1243.3	795.2	592.8	548.2	499.3	459.0	428.6	410.1	402.5
27.5°	3123.0	2163.6	1107.4	665.7	547.2	485.1	421.0	373.1	341.6	325.2	318.7
30°	3141.5	2045.0	987.7	585.2	496.0	418.8	350.3	303.5	280.6	271.9	267.6
32.5°	3158.9	1913.4	874.6	547.2	448.2	357.9	293.7	257.8	243.7	232.8	229.5
35°	3202.4	1791.6	766.9	506.9	399.2	305.7	252.4	226.3	212.1	205.6	203.4
37.5°	3305.8	1701.3	663.5	465.6	350.3	264.3	220.8	202.3	189.3	182.7	180.6
40°	3472.2	1655.6	576.5	421.0	302.4	232.8	200.2	182.7	168.6	158.8	156.6
42.5°	3716.9	1662.1	515.6	376.4	264.3	207.8	180.6	159.9	144.7	136.0	133.8
45°	4013.9	1710.0	473.2	332.9	232.8	188.2	158.8	137.1	122.9	115.3	113.1
47.5°	4335.9	1787.2	438.4	293.7	207.8	169.7	137.1	114.2	102.3	95.7	94.6
50°	4675.3	1862.3	402.5	255.6	186.0	151.2	115.3	94.6	84.8	79.4	77.2
52.5°	5019.0	1949.3	369.8	220.8	167.5	129.4	95.7	77.2	69.6	65.3	63.1
55°	5388.9	2014.6	338.3	193.6	149.0	109.9	79.4	64.2	57.7	52.2	51.1
57.5°	5824.0	2115.7	305.7	167.5	127.3	91.4	65.3	51.1	45.7	40.2	39.2
60°	6411.4	2234.3	270.9	147.9	104.4	75.1	53.3	41.3	34.8	30.5	29.4
62.5°	7185.9	2365.9	227.3	129.4	84.8	60.9	42.4	32.6	25.0	19.6	19.6
65°	8168.1	2580.2	186.0	108.8	69.6	50.0	32.6	23.9	14.1	8.7	8.7
67.5°	8741.4	2617.2	150.1	89.2	56.6	42.4	27.2	16.3	4.4	1.1	0.0
69°	8557.6	2402.9	127.3	76.1	49.0	40.2	25.0	12.0	2.2	0.0	0.0
70°	8211.7	2197.3	112.0	67.4	44.6	38.1	23.9	8.7	2.2	0.0	0.0
72.5°	6785.6	1564.2	84.8	50.0	32.6	33.7	21.8	5.4	2.2	0.0	0.0
75°	4942.9	950.7	60.9	34.8	20.7	25.0	15.2	2.2	1.1	0.0	0.0
77.5°	2749.9	448.2	38.1	19.6	13.1	15.2	7.6	0.0	0.0	0.0	0.0
80°	893.1	121.8	17.4	10.9	7.6	8.7	3.3	0.0	0.0	0.0	0.0
82.5°	165.3	34.8	9.8	5.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	35.9	14.1	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.4	1.1	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)