

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: P324808

Luminaire Tested: **GAN-SA4C-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23357 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

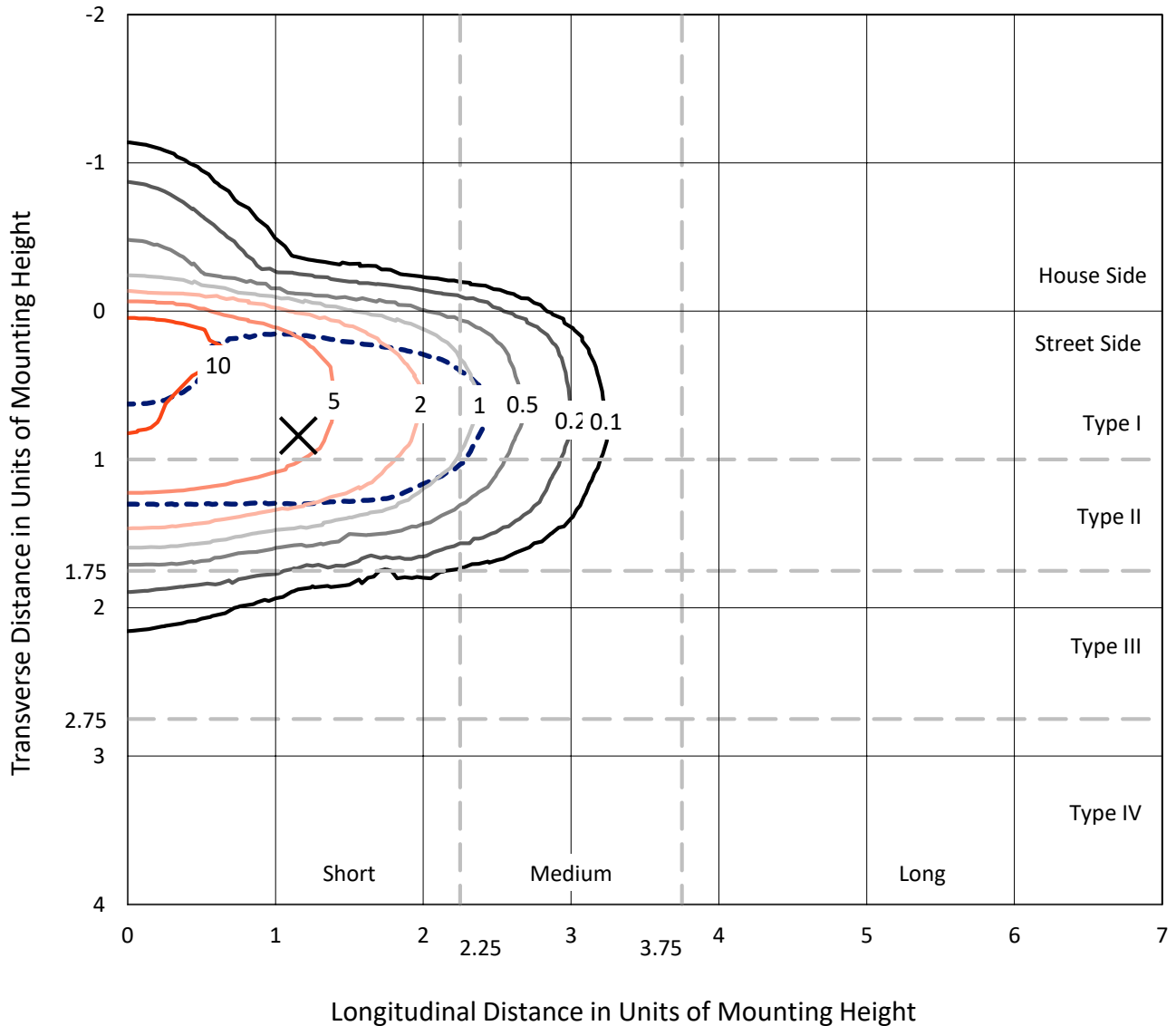
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

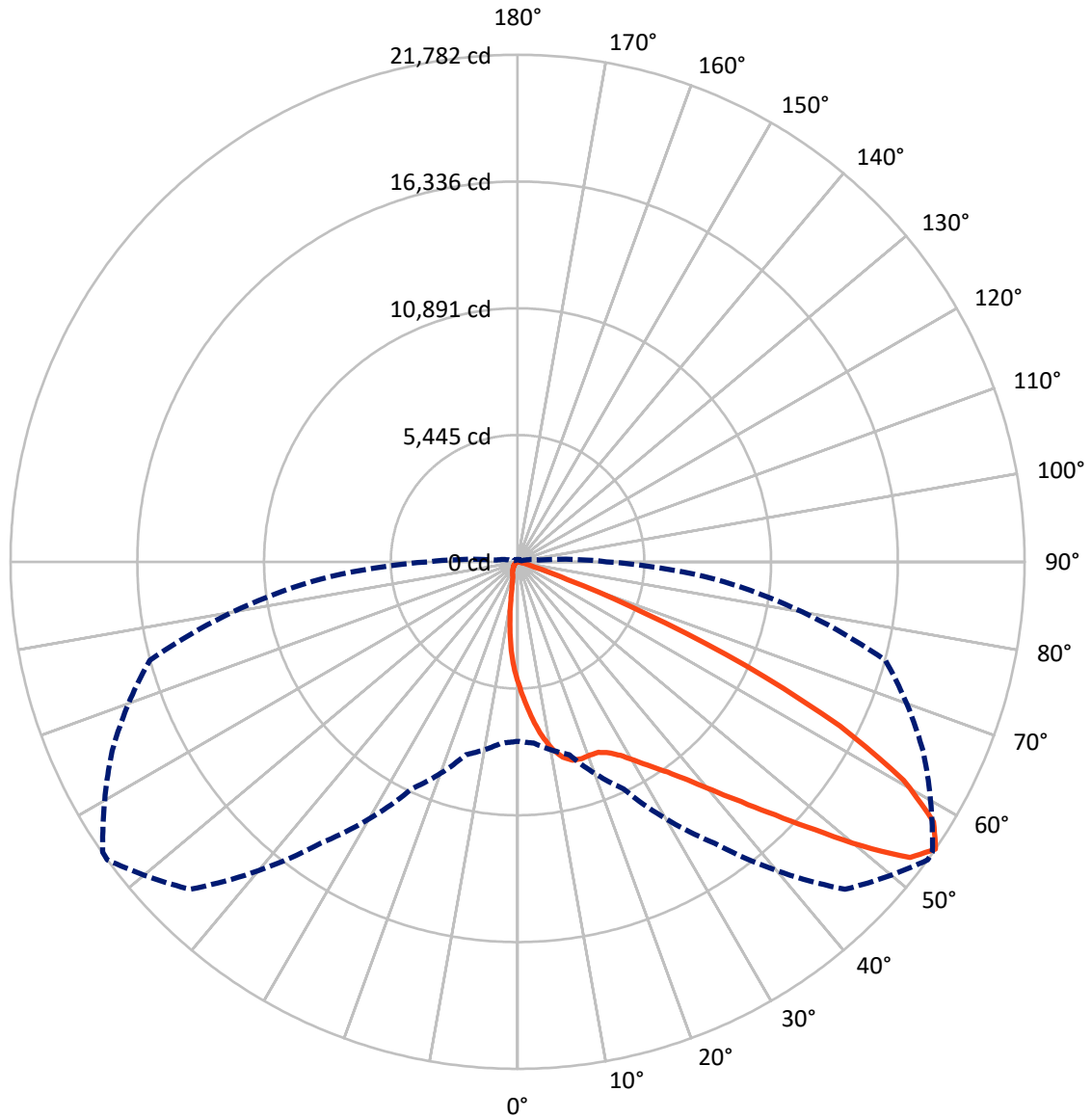
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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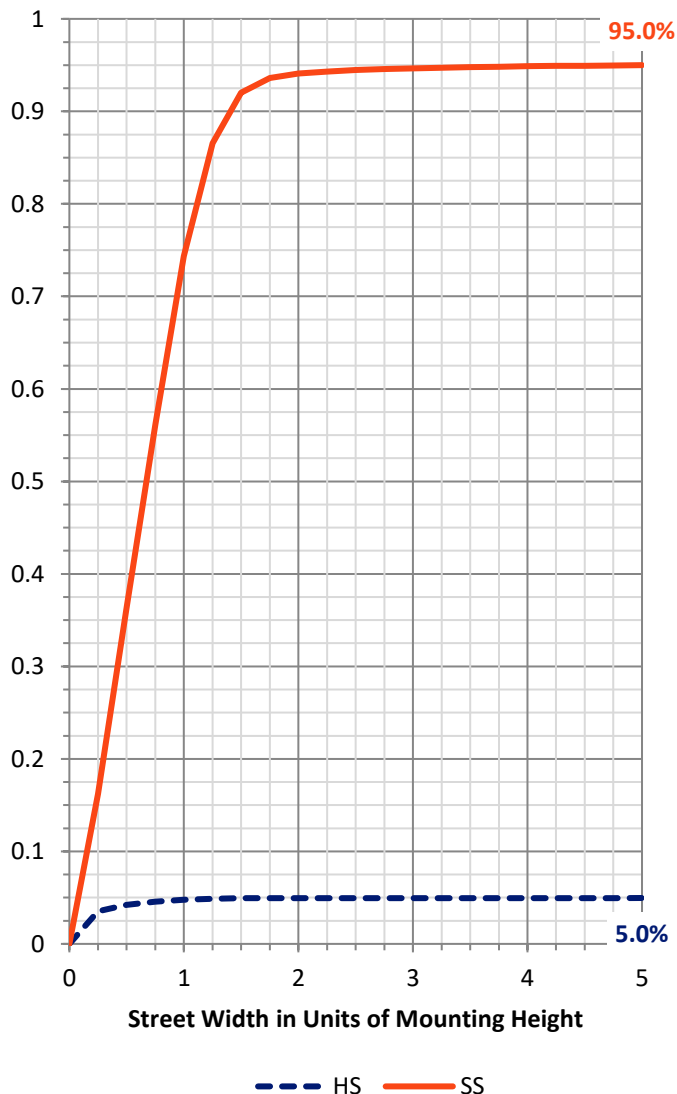
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.3	0.0	1165.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22191.7	0.0	22191.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	23357.0	0.0	23357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	2.1
10°-20°	1321.1	5.7
20°-30°	2255.6	9.7
30°-40°	3619.9	15.5
40°-50°	5784.6	24.8
50°-60°	6198.3	26.5
60°-70°	3182.4	13.6
70°-80°	482.1	2.1
80°-90°	31.4	0.1
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°	23357.0	100.0
0°-180°	23357.0	100.0

Coefficient of Utilization

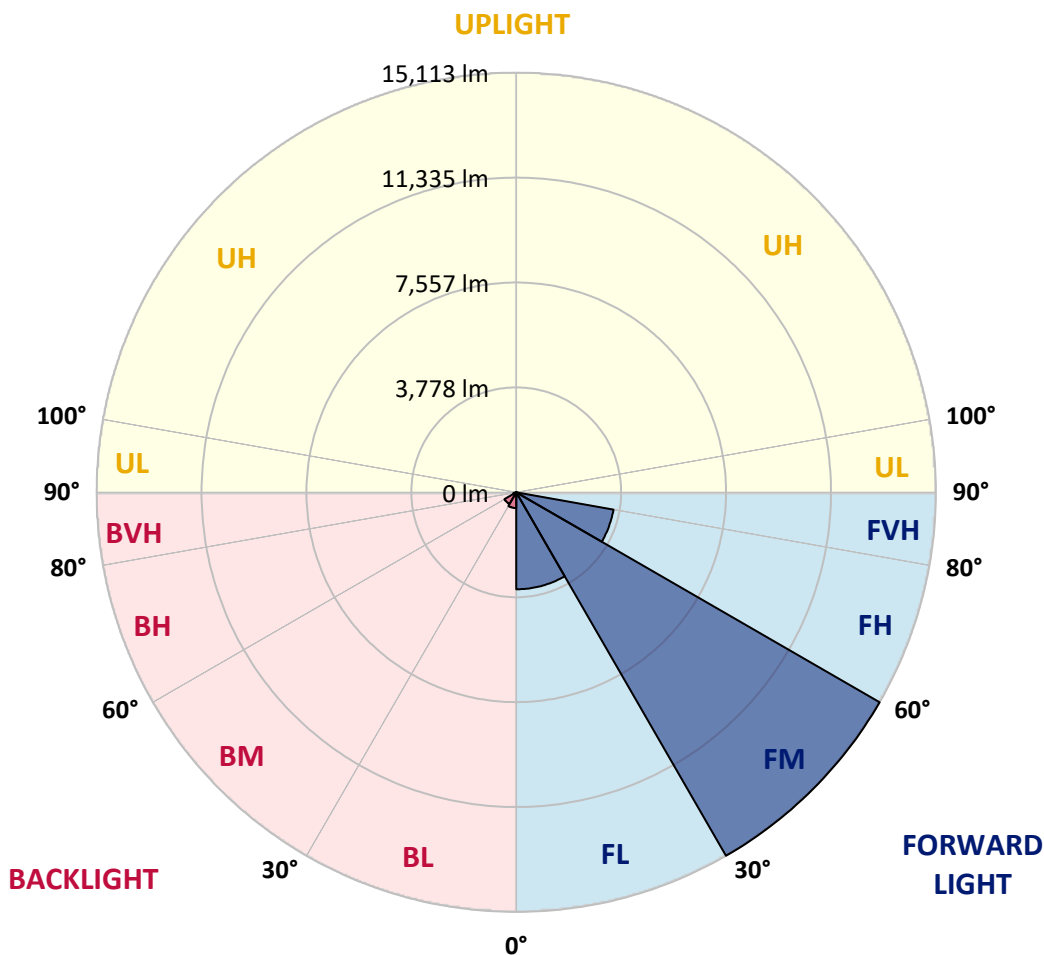


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3491.5	14.9			
FM (30°-60°)	15113.0	64.7			
FH (60°-80°)	3557.1	15.2			G2/5000
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	567.0	2.4	B2/1000		
BM (30°-60°)	489.7	2.1	B1/1000		
BH (60°-80°)	107.4	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	6564.5	6466.7	6469.7	6425.3	6262.9	6135.8	6003.7	5972.4	5766.6	5550.8	5343.0
5°	7699.3	7627.7	7610.5	7524.8	7298.8	7059.8	6803.6	6744.1	6341.6	5899.8	5465.0
7.5°	8282.3	8283.3	8269.2	8237.9	8096.7	7864.7	7552.0	7489.5	6941.8	6279.1	5592.1
10°	8112.8	8151.2	8229.8	8333.7	8441.7	8412.4	8177.4	8120.9	7525.8	6680.5	5733.4
12.5°	7717.4	7722.5	7810.2	7980.7	8291.4	8610.1	8614.2	8595.0	8083.6	7100.1	5888.7
15°	7520.7	7539.9	7572.2	7682.1	7976.7	8487.1	8852.2	8879.4	8595.0	7546.0	6054.1
17.5°	7649.9	7677.1	7649.9	7663.0	7833.4	8292.4	8893.6	8963.2	9041.8	7986.8	6210.5
20°	7999.9	8025.1	7976.7	7923.2	7956.5	8235.9	8864.3	8958.1	9391.8	8378.1	6341.6
22.5°	8471.9	8482.0	8408.4	8320.6	8296.4	8427.5	8888.5	8985.3	9672.3	8732.2	6424.3
25°	8991.4	9000.5	8908.7	8807.8	8750.3	8803.8	9087.2	9159.9	9919.4	9070.1	6471.7
27.5°	9557.3	9565.3	9450.4	9326.3	9259.7	9261.7	9415.0	9492.7	10182.7	9455.4	6510.0
30°	10155.4	10151.4	10045.5	9873.0	9788.3	9786.2	9887.1	9965.8	10563.9	9949.7	6562.5
32.5°	10827.2	10819.1	10668.8	10455.0	10359.2	10373.3	10463.1	10508.5	11037.0	10476.2	6656.3
35°	11711.8	11688.6	11461.7	11196.4	11019.9	11014.8	11090.5	11126.8	11640.2	11113.7	6812.6
37.5°	12859.7	12838.5	12530.9	12145.6	11897.4	11804.6	11894.4	11940.8	12500.6	11931.7	7063.8
40°	13991.4	13970.3	13787.7	13434.7	13052.4	12829.4	12900.0	12949.5	13574.9	12924.3	7380.5
42.5°	14772.2	14790.3	14853.9	14883.1	14525.0	14057.0	14089.3	14140.7	14703.6	13985.4	7742.7
45°	14977.9	15017.3	15376.4	16081.4	16215.6	15850.4	15512.5	15540.8	15850.4	15046.5	8104.8
47.5°	14359.6	14432.2	15125.2	16436.5	17572.3	17830.5	17191.0	17153.7	16950.9	15904.9	8362.0
50°	12954.5	13021.1	13918.8	15858.5	17983.8	19720.8	19202.3	19092.4	17916.2	16418.3	8452.8
52.5°	10921.0	11001.7	11731.0	14038.9	17208.1	20564.0	21106.7	21014.9	18624.3	16458.7	8467.9
55°	7712.4	7810.2	8581.9	10759.6	14750.0	19893.2	21781.5	21754.3	19212.4	16351.8	8500.2
57.5°	4334.3	4404.9	5237.1	6897.4	10803.0	17327.2	21076.4	21257.0	19567.4	16166.2	8548.6
60°	1924.6	1943.7	2374.4	3433.6	6324.4	13242.0	19058.1	19362.7	19262.8	15918.0	8630.3
62.5°	1067.2	1051.0	1051.0	1427.3	2748.7	8197.6	15540.8	16044.1	17962.6	15624.5	8634.3
65°	836.2	821.1	777.7	783.7	1047.0	3638.3	10761.6	11656.3	15493.4	14764.1	8343.8
67.5°	709.1	696.0	652.6	635.5	650.6	1200.3	5912.9	6841.9	11756.2	12527.8	7227.2
70°	599.2	590.1	567.9	546.7	508.4	593.1	2262.5	2893.9	7244.4	8333.7	4933.5
72.5°	482.2	478.1	486.2	468.0	421.6	395.4	773.7	937.1	3254.0	3719.0	2032.5
75°	415.6	413.6	417.6	399.4	347.0	275.4	393.4	429.7	917.9	909.8	411.5
77.5°	270.3	273.4	346.0	337.9	298.6	183.6	203.8	219.9	278.4	208.8	125.1
80°	172.5	170.5	175.5	280.4	268.3	140.2	101.9	106.9	134.2	102.9	60.5
82.5°	104.9	102.9	115.0	131.1	135.2	97.8	62.5	63.5	83.7	66.6	32.3
85°	9.1	12.1	69.6	64.6	46.4	30.3	30.3	32.3	44.4	39.3	18.2
87.5°	0.0	0.0	12.1	18.2	10.1	11.1	11.1	12.1	17.1	17.1	9.1
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°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	5235.1	5130.2	4918.3	4714.6	4542.1	4375.7	4186.0	3998.4	3910.7	3875.4	3839.0
5°	5244.1	5028.3	4591.5	4151.7	3695.8	3285.3	2935.3	2576.2	2396.6	2318.0	2281.6
7.5°	5256.2	4927.4	4221.3	3483.0	2748.7	2191.9	1705.7	1393.0	1257.8	1236.6	1184.2
10°	5258.3	4805.4	3791.6	2744.6	1842.9	1321.4	1016.8	855.4	795.9	785.8	768.6
12.5°	5262.3	4661.1	3314.5	2032.5	1228.6	883.6	735.3	681.9	665.7	664.7	664.7
15°	5274.4	4509.8	2819.3	1464.6	882.6	700.0	645.6	624.4	618.3	621.3	620.3
17.5°	5274.4	4331.3	2333.1	1091.4	713.1	629.4	599.2	585.0	583.0	586.0	587.1
20°	5236.1	4114.4	1887.2	849.3	632.4	584.0	556.8	543.7	538.6	540.7	541.7
22.5°	5144.3	3848.1	1524.1	703.1	579.0	542.7	513.4	493.2	485.2	486.2	486.2
25°	5001.1	3532.4	1192.3	608.2	535.6	498.3	464.0	440.8	435.8	434.7	436.8
27.5°	4817.5	3183.4	949.2	535.6	484.2	448.9	414.6	395.4	391.4	392.4	393.4
30°	4636.9	2821.3	748.4	474.1	426.7	393.4	367.2	358.1	358.1	361.1	362.1
32.5°	4471.5	2473.3	592.1	420.6	375.2	345.0	329.8	328.8	333.9	335.9	336.9
35°	4329.3	2151.5	490.2	379.3	334.9	308.7	303.6	307.6	313.7	317.7	318.7
37.5°	4228.4	1864.0	428.7	345.0	303.6	282.4	281.4	289.5	297.6	306.6	308.7
40°	4186.0	1621.0	386.3	314.7	278.4	262.3	259.2	270.3	285.5	298.6	300.6
42.5°	4150.7	1422.2	350.0	285.5	258.2	235.0	234.0	248.1	266.3	279.4	282.4
45°	4120.5	1262.9	316.7	254.2	232.0	201.7	204.8	222.9	237.0	251.2	254.2
47.5°	4057.9	1131.7	280.4	220.9	191.6	172.5	178.5	194.7	205.8	227.0	230.0
50°	3946.0	1024.8	243.1	180.6	156.3	149.3	158.4	169.5	183.6	201.7	203.8
52.5°	3870.3	944.1	210.8	151.3	129.1	131.1	140.2	144.2	152.3	159.4	157.4
55°	3826.9	899.7	184.6	131.1	109.9	116.0	118.0	113.0	108.9	101.9	98.9
57.5°	3821.9	859.4	164.4	114.0	96.8	99.9	92.8	75.7	61.5	53.5	51.4
60°	3813.8	810.0	148.3	95.8	85.7	81.7	66.6	41.4	29.3	27.2	27.2
62.5°	3726.1	733.3	136.2	80.7	72.6	61.5	38.3	19.2	16.1	17.1	17.1
65°	3446.7	626.4	124.1	65.6	57.5	44.4	19.2	11.1	6.1	7.1	7.1
67.5°	2930.2	499.3	111.0	50.4	43.4	28.2	11.1	5.0	0.0	0.0	0.0
70°	1961.9	309.7	93.8	35.3	28.2	17.1	8.1	1.0	0.0	0.0	0.0
72.5°	752.5	167.4	75.7	21.2	18.2	12.1	5.0	0.0	0.0	0.0	0.0
75°	169.5	109.9	52.5	15.1	13.1	8.1	2.0	0.0	0.0	0.0	0.0
77.5°	64.6	79.7	30.3	10.1	9.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	47.4	14.1	6.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	18.2	6.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	9.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)