

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: P324748

Luminaire Tested: **GAN-SA4A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324748
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-SA4A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 14014 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

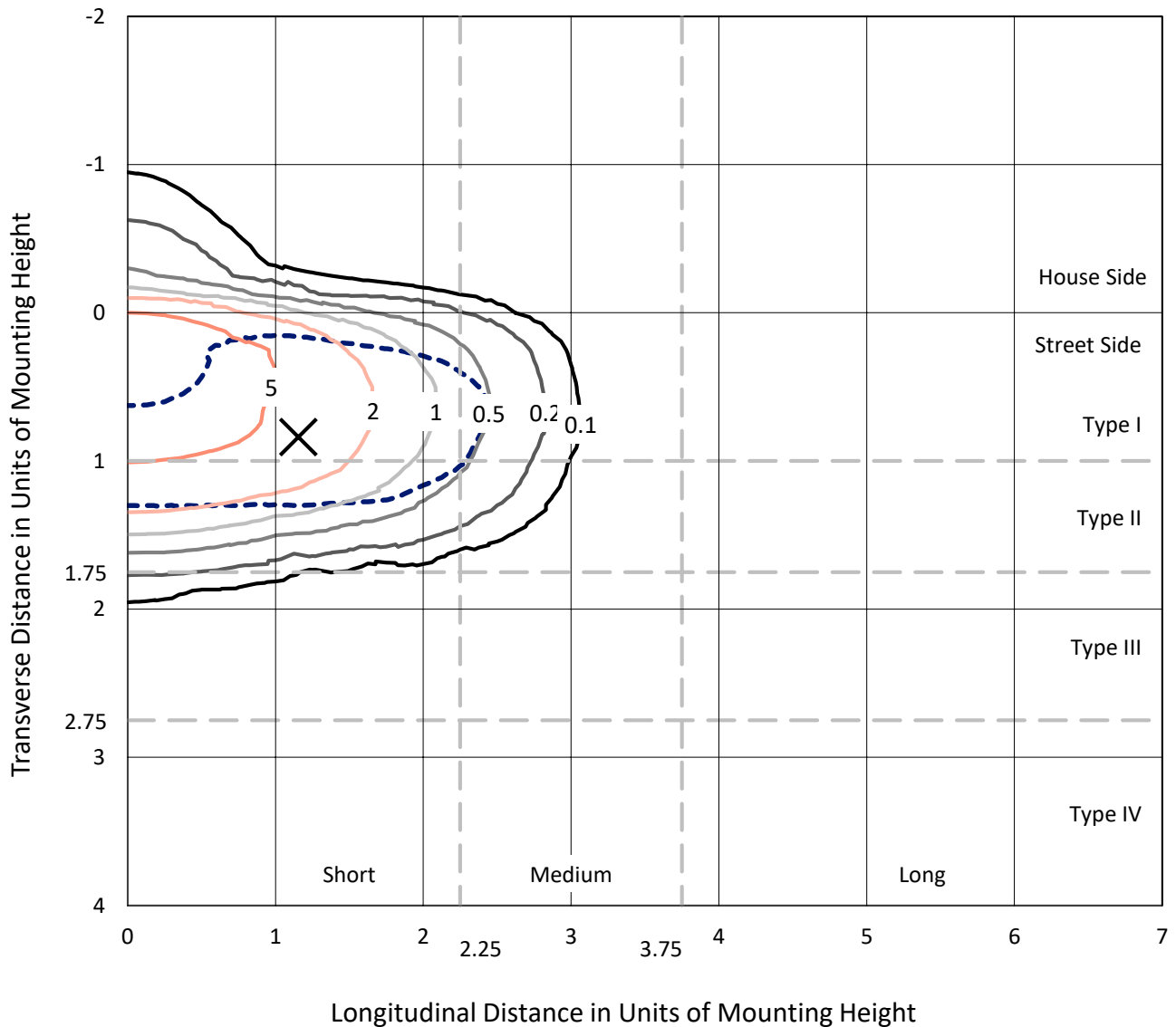
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

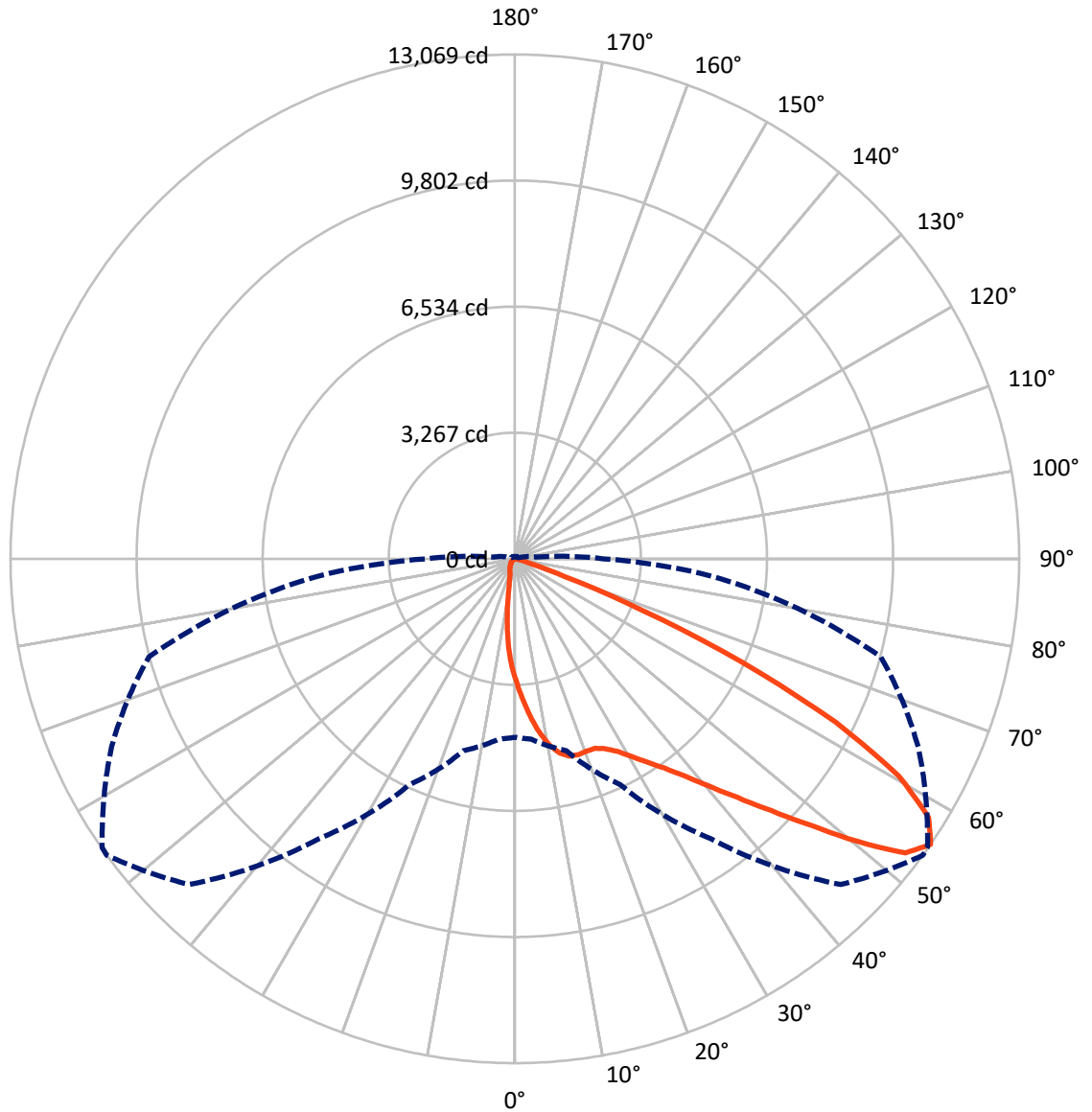
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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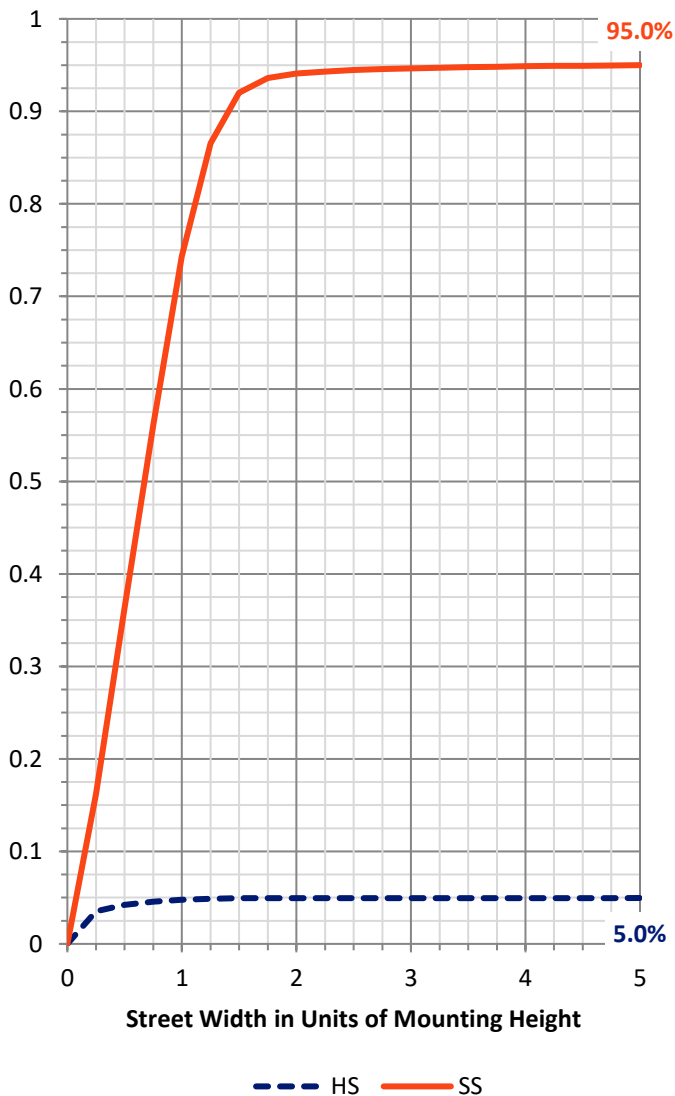
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.2	0.0	699.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13314.8	0.0	13314.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	14014.0	0.0	14014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	2.1
10°-20°	792.7	5.7
20°-30°	1353.3	9.7
30°-40°	2171.9	15.5
40°-50°	3470.7	24.8
50°-60°	3718.9	26.5
60°-70°	1909.4	13.6
70°-80°	289.2	2.1
80°-90°	18.8	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°	14014.0	100.0
0°-180°	14014.0	100.0

Coefficient of Utilization

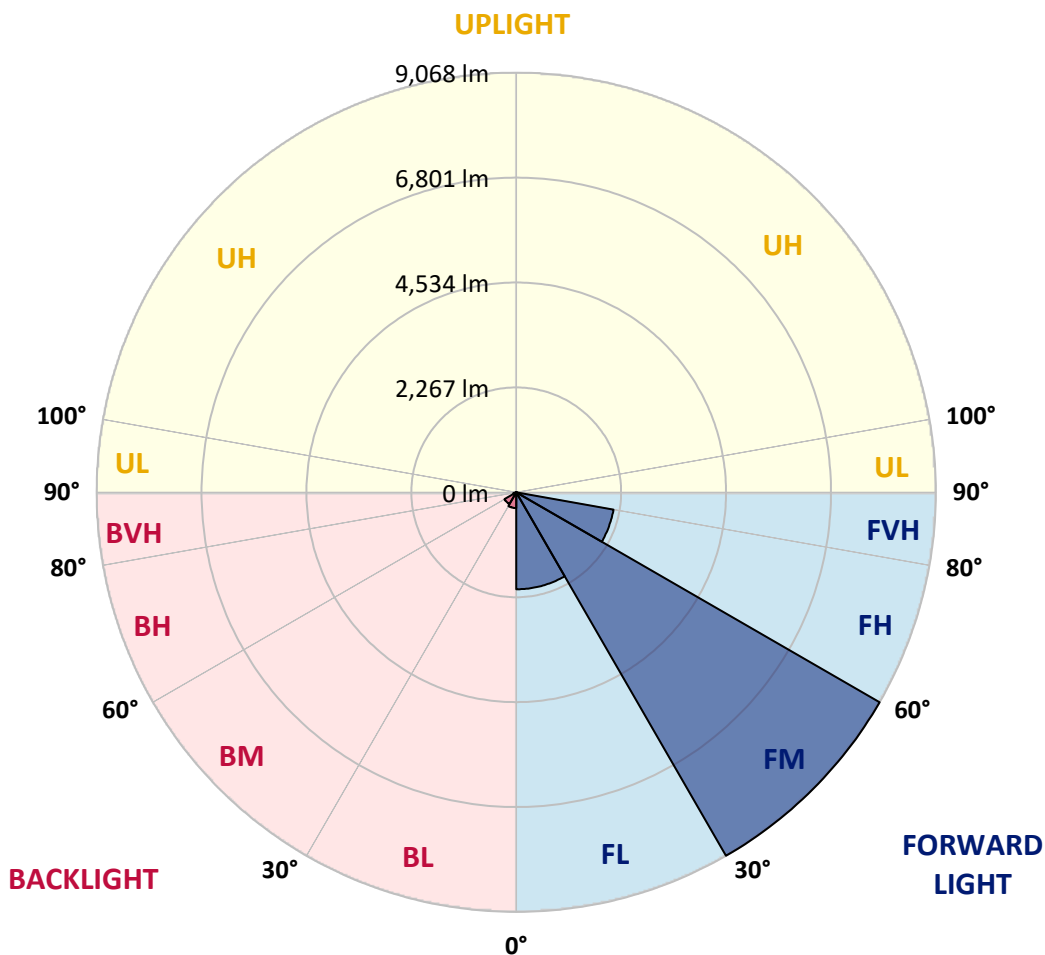


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.9	14.9			
FM (30°-60°)	9067.7	64.7			
FH (60°-80°)	2134.2	15.2			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	340.2	2.4	B1/500		
BM (30°-60°)	293.8	2.1	B1/1000		
BH (60°-80°)	64.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.8	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6
2.5°	3938.6	3879.9	3881.8	3855.1	3757.7	3681.4	3602.2	3583.4	3459.9	3330.4	3205.8
5°	4619.5	4576.5	4566.2	4514.8	4379.2	4235.8	4082.1	4046.4	3804.9	3539.8	3279.0
7.5°	4969.3	4969.9	4961.4	4942.7	4858.0	4718.8	4531.1	4493.6	4165.0	3767.4	3355.2
10°	4867.6	4890.6	4937.8	5000.2	5064.9	5047.4	4906.4	4872.5	4515.4	4008.2	3440.0
12.5°	4630.4	4633.4	4686.1	4788.4	4974.8	5166.0	5168.4	5156.9	4850.1	4260.0	3533.2
15°	4512.4	4523.9	4543.2	4609.2	4785.9	5092.2	5311.2	5327.6	5156.9	4527.5	3632.4
17.5°	4589.8	4606.2	4589.8	4597.7	4700.0	4975.4	5336.1	5377.8	5425.0	4792.0	3726.2
20°	4799.9	4815.0	4785.9	4753.9	4773.8	4941.5	5318.5	5374.8	5635.0	5026.8	3804.9
22.5°	5083.1	5089.1	5045.0	4992.3	4977.8	5056.5	5333.0	5391.1	5803.3	5239.2	3854.5
25°	5394.8	5400.2	5345.1	5284.6	5250.1	5282.2	5452.3	5495.8	5951.5	5442.0	3883.0
27.5°	5734.3	5739.1	5670.1	5595.7	5555.7	5557.0	5648.9	5695.5	6109.5	5673.2	3906.0
30°	6093.2	6090.7	6027.2	5923.7	5872.9	5871.7	5932.2	5979.4	6338.3	5969.7	3937.4
32.5°	6496.2	6491.4	6401.2	6272.9	6215.4	6223.9	6277.8	6305.0	6622.1	6285.6	3993.7
35°	7027.0	7013.1	6876.9	6717.7	6611.8	6608.8	6654.2	6676.0	6984.0	6668.1	4087.5
37.5°	7715.7	7703.0	7518.4	7287.2	7138.3	7082.7	7136.5	7164.4	7500.3	7158.9	4238.2
40°	8394.7	8382.0	8272.5	8060.7	7831.3	7697.6	7739.9	7769.6	8144.8	7754.4	4428.3
42.5°	8863.2	8874.1	8912.2	8929.7	8714.9	8434.1	8453.5	8484.3	8822.0	8391.1	4645.5
45°	8986.6	9010.2	9225.7	9648.7	9729.2	9510.1	9307.4	9324.3	9510.1	9027.8	4862.8
47.5°	8615.6	8659.2	9075.0	9861.8	10543.2	10698.1	10314.4	10292.1	10170.4	9542.8	5017.1
50°	7772.6	7812.5	8351.2	9515.0	10790.1	11832.3	11521.2	11455.2	10749.6	9850.9	5071.6
52.5°	6552.5	6600.9	7038.5	8423.2	10324.7	12338.2	12663.8	12608.8	11174.4	9875.1	5080.7
55°	4627.4	4686.1	5149.1	6455.7	8849.9	11935.8	13068.7	13052.4	11527.3	9810.9	5100.0
57.5°	2600.5	2642.9	3142.2	4138.4	6481.7	10396.1	12645.7	12754.0	11740.3	9699.6	5129.1
60°	1154.7	1166.2	1424.6	2060.1	3794.6	7945.1	11434.7	11617.4	11557.5	9550.7	5178.1
62.5°	640.3	630.6	630.6	856.4	1649.2	4918.5	9324.3	9626.3	10777.4	9374.6	5180.5
65°	501.7	492.6	466.6	470.2	628.2	2183.0	6456.9	6993.7	9295.9	8858.3	5006.2
67.5°	425.5	417.6	391.6	381.3	390.4	720.2	3547.7	4105.1	7053.6	7516.6	4336.3
70°	359.5	354.0	340.7	328.0	305.0	355.9	1357.5	1736.3	4346.6	5000.2	2960.0
72.5°	289.3	286.9	291.7	280.8	253.0	237.2	464.2	562.2	1952.4	2231.4	1219.5
75°	249.3	248.1	250.6	239.7	208.2	165.2	236.0	257.8	550.7	545.9	246.9
77.5°	162.2	164.0	207.6	202.7	179.1	110.1	122.3	131.9	167.0	125.3	75.0
80°	103.5	102.3	105.3	168.2	161.0	84.1	61.1	64.2	80.5	61.7	36.3
82.5°	62.9	61.7	69.0	78.7	81.1	58.7	37.5	38.1	50.2	39.9	19.4
85°	5.4	7.3	41.8	38.7	27.8	18.2	18.2	19.4	26.6	23.6	10.9
87.5°	0.0	0.0	7.3	10.9	6.1	6.7	6.7	7.3	10.3	10.3	5.4
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°	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6	3138.6
2.5°	3141.0	3078.1	2951.0	2828.7	2725.2	2625.4	2511.6	2399.0	2346.4	2325.2	2303.4
5°	3146.4	3016.9	2754.9	2491.0	2217.5	1971.1	1761.1	1545.7	1438.0	1390.8	1369.0
7.5°	3153.7	2956.4	2532.8	2089.8	1649.2	1315.1	1023.4	835.8	754.7	742.0	710.5
10°	3154.9	2883.2	2275.0	1646.8	1105.7	792.8	610.0	513.2	477.5	471.5	461.2
12.5°	3157.3	2796.6	1988.7	1219.5	737.1	530.2	441.2	409.1	399.4	398.8	398.8
15°	3164.6	2705.9	1691.5	878.8	529.6	420.0	387.3	374.6	371.0	372.8	372.2
17.5°	3164.6	2598.7	1399.8	654.8	427.9	377.6	359.5	351.0	349.8	351.6	352.2
20°	3141.6	2468.6	1132.3	509.6	379.5	350.4	334.1	326.2	323.2	324.4	325.0
22.5°	3086.5	2308.8	914.5	421.8	347.4	325.6	308.0	295.9	291.1	291.7	291.7
25°	3000.6	2119.4	715.3	364.9	321.4	299.0	278.4	264.5	261.4	260.8	262.1
27.5°	2890.4	1910.0	569.5	321.4	290.5	269.3	248.7	237.2	234.8	235.4	236.0
30°	2782.1	1692.7	449.1	284.4	256.0	236.0	220.3	214.8	214.8	216.7	217.3
32.5°	2682.9	1484.0	355.3	252.4	225.1	207.0	197.9	197.3	200.3	201.5	202.1
35°	2597.5	1290.9	294.1	227.6	200.9	185.2	182.2	184.6	188.2	190.6	191.2
37.5°	2537.0	1118.4	257.2	207.0	182.2	169.5	168.9	173.7	178.5	184.0	185.2
40°	2511.6	972.6	231.8	188.8	167.0	157.4	155.5	162.2	171.3	179.1	180.3
42.5°	2490.4	853.3	210.0	171.3	154.9	141.0	140.4	148.9	159.8	167.6	169.5
45°	2472.2	757.7	190.0	152.5	139.2	121.0	122.9	133.7	142.2	150.7	152.5
47.5°	2434.7	679.0	168.2	132.5	115.0	103.5	107.1	116.8	123.5	136.2	138.0
50°	2367.5	614.9	145.9	108.3	93.8	89.6	95.0	101.7	110.1	121.0	122.3
52.5°	2322.2	566.5	126.5	90.8	77.5	78.7	84.1	86.5	91.4	95.6	94.4
55°	2296.1	539.8	110.8	78.7	66.0	69.6	70.8	67.8	65.4	61.1	59.3
57.5°	2293.1	515.6	98.6	68.4	58.1	59.9	55.7	45.4	36.9	32.1	30.9
60°	2288.3	486.0	89.0	57.5	51.4	49.0	39.9	24.8	17.6	16.3	16.3
62.5°	2235.6	440.0	81.7	48.4	43.6	36.9	23.0	11.5	9.7	10.3	10.3
65°	2068.0	375.8	74.4	39.3	34.5	26.6	11.5	6.7	3.6	4.2	4.2
67.5°	1758.1	299.6	66.6	30.3	26.0	16.9	6.7	3.0	0.0	0.0	0.0
70°	1177.1	185.8	56.3	21.2	16.9	10.3	4.8	0.6	0.0	0.0	0.0
72.5°	451.5	100.5	45.4	12.7	10.9	7.3	3.0	0.0	0.0	0.0	0.0
75°	101.7	66.0	31.5	9.1	7.9	4.8	1.2	0.0	0.0	0.0	0.0
77.5°	38.7	47.8	18.2	6.1	5.4	3.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	28.4	8.5	3.6	3.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	10.9	3.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	5.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	0.6	0.6	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)