

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: P190943

Luminaire Tested: **GAN-AF-05-LED-U-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 27329.1 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 320
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: 28.75 FT

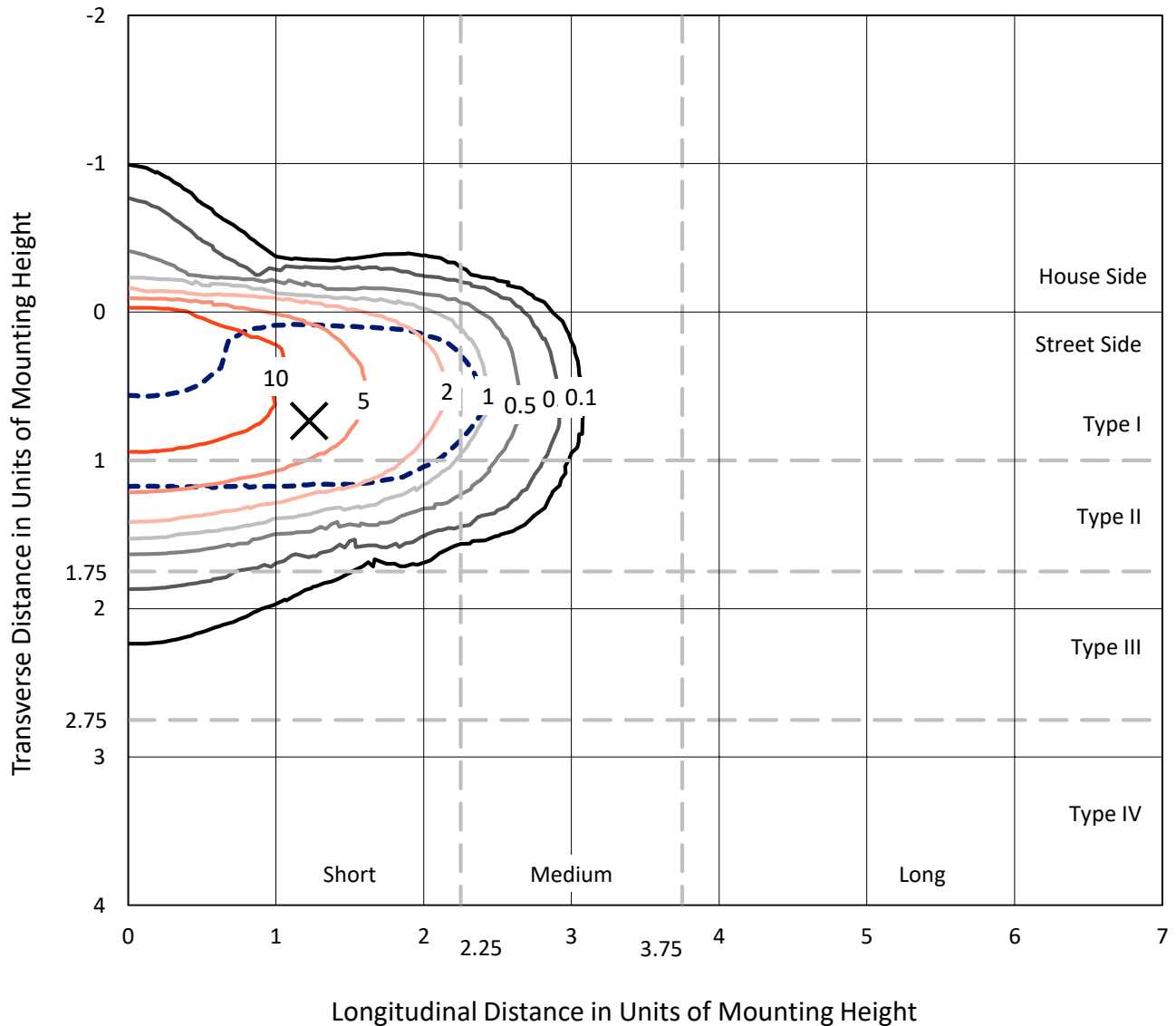


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Iso-Footcandle Lines of Horizontal Illumination

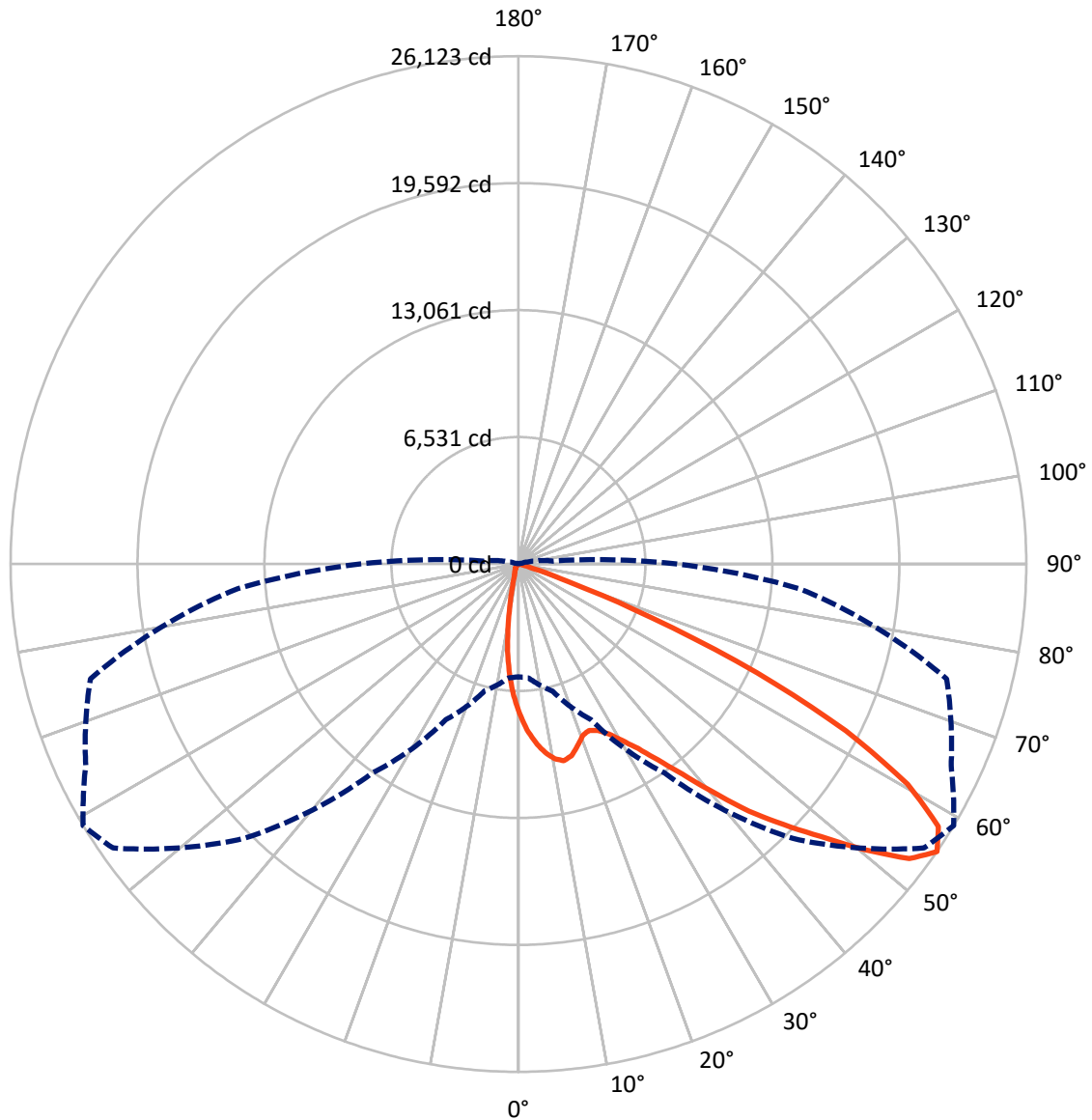
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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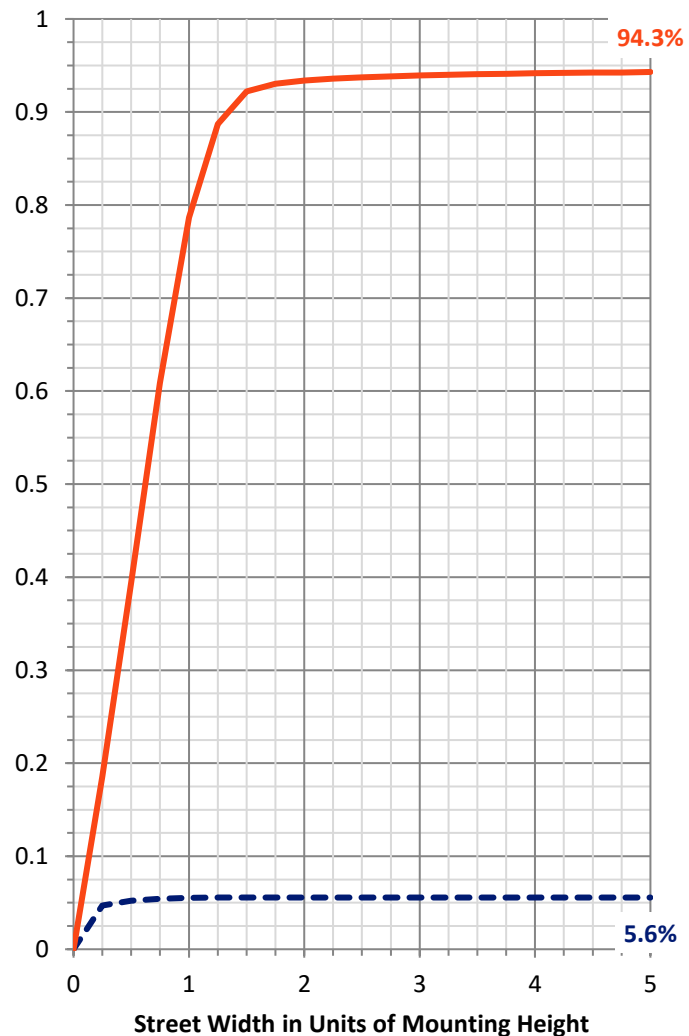
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.5	0.0	1526.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	25802.7	0.0	25802.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	27329.1	0.0	27329.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.4	2.4
10°-20°	1542.8	5.6
20°-30°	2625.3	9.6
30°-40°	4514.9	16.5
40°-50°	6970.5	25.5
50°-60°	7007.6	25.6
60°-70°	3593.5	13.1
70°-80°	389.4	1.4
80°-90°	40.7	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°	27329.1	100.0
0°-180°	27329.1	100.0

Coefficient of Utilization



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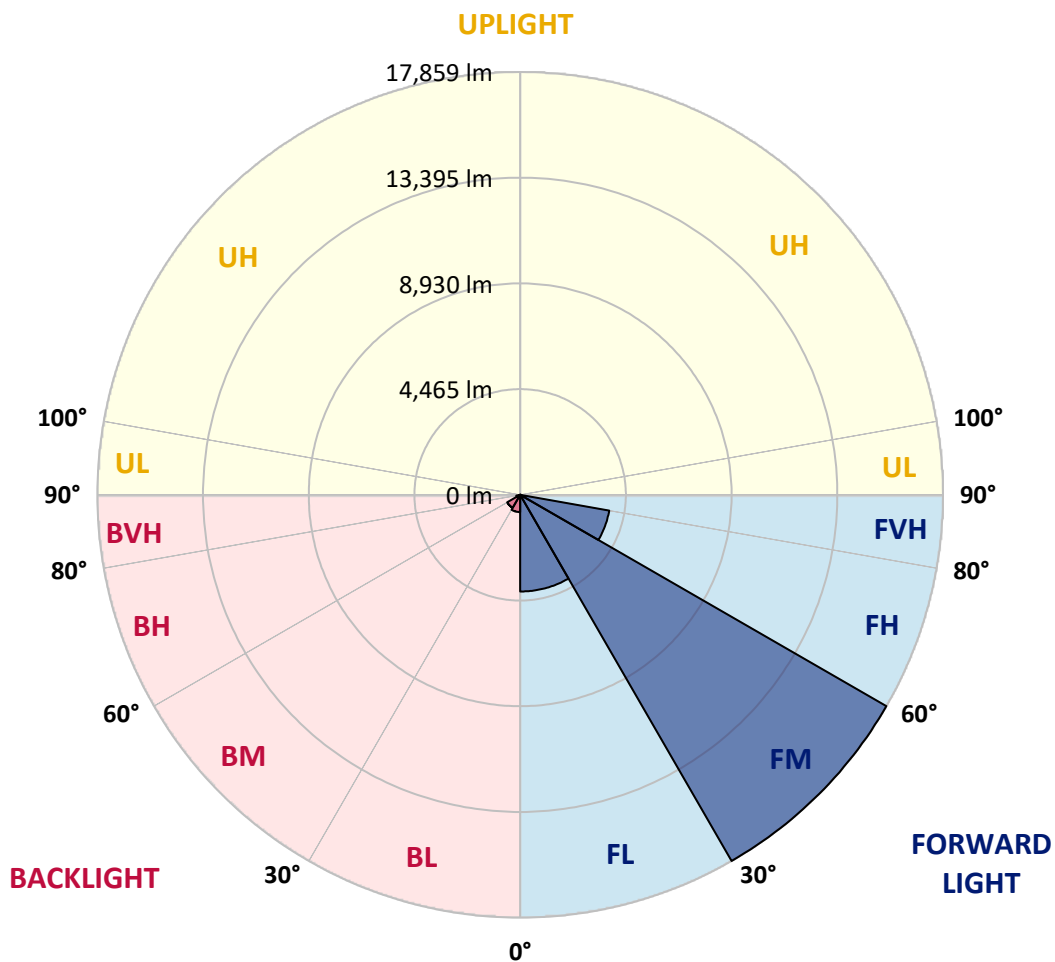
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4083.9	14.9			
FM	(30°-60°)	17859.5	65.3			
FH	(60°-80°)	3819.4	14.0			G2/5000
FVH	(80°-90°)	39.9	0.1			G1/100
BL	(0°-30°)	728.6	2.7	B2/1000		
BM	(30°-60°)	633.5	2.3	B1/1000		
BH	(60°-80°)	163.5	0.6	B1/500		G1/500
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: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1
2.5°	9102.6	9005.9	8976.8	8957.5	8868.8	8757.5	8605.9	8535.0	8389.8	8155.9	7868.8
5°	9936.4	9918.7	9854.2	9818.7	9723.6	9565.5	9323.6	9207.5	8976.8	8583.3	8068.8
7.5°	9572.0	9683.3	9771.9	9920.4	10107.5	10100.9	9897.8	9776.8	9518.8	8999.4	8291.4
10°	8164.0	8254.3	8399.4	8736.5	9423.6	10030.0	10268.7	10181.6	9975.2	9381.7	8505.9
12.5°	7888.2	7878.6	7904.3	8002.7	8362.4	9226.8	10205.8	10381.6	10339.7	9731.6	8709.1
15°	8035.0	8023.7	8020.4	8054.3	8141.5	8505.9	9733.3	10238.1	10562.3	10055.8	8881.7
17.5°	8446.2	8397.8	8372.0	8344.6	8318.8	8409.2	9165.5	9836.5	10596.1	10339.7	9025.2
20°	9151.0	9070.4	8975.3	8820.4	8675.2	8630.1	8926.9	9423.6	10475.1	10555.8	9118.8
22.5°	10036.5	9933.3	9768.8	9486.5	9191.3	9020.4	9044.6	9293.0	10294.5	10791.2	9162.4
25°	11031.6	10899.3	10680.0	10288.0	9854.2	9551.0	9392.9	9480.0	10212.2	11067.0	9212.3
27.5°	12097.6	11950.8	11663.8	11129.9	10638.1	10228.4	9905.8	9894.5	10352.6	11428.3	9293.0
30°	13154.0	13131.4	12757.2	12192.8	11541.2	11042.9	10578.3	10518.7	10744.5	11928.3	9452.6
32.5°	14563.5	14394.2	13936.2	13355.6	12604.1	12005.7	11455.7	11317.0	11346.1	12510.5	9699.4
35°	16340.9	16155.5	15510.3	14708.7	13868.5	13162.1	12554.1	12365.3	12294.3	13463.7	10115.4
37.5°	17489.2	17486.0	17081.1	16265.1	15363.5	14584.5	13923.3	13702.3	13558.8	14615.2	10760.6
40°	17519.9	17595.7	17648.9	17640.8	16998.9	16281.2	15694.1	15421.6	15087.7	16153.8	11594.4
42.5°	16579.6	16774.8	17244.1	18040.8	18421.4	18135.9	17640.8	17373.1	16876.3	17800.5	12610.5
45°	15308.7	15444.2	16265.1	17732.8	19192.3	19974.5	19597.2	19118.1	18463.3	19518.1	13521.7
47.5°	14739.4	14763.5	15294.1	16905.4	19250.4	21480.8	21709.9	20930.9	19905.2	20901.9	14234.6
50°	13037.9	13081.4	13813.6	15471.6	18569.8	22192.1	23832.4	23093.7	21477.7	21968.0	14494.2
52.5°	9826.8	9888.0	10817.1	13115.3	16699.0	21888.9	25351.6	25172.6	23200.1	22488.9	14508.7
55°	5798.0	5878.7	6765.7	8828.5	13134.7	19960.0	25464.5	26122.5	24559.7	22797.0	14486.2
57.5°	2707.9	2764.3	3272.4	4548.1	8168.9	15774.8	23764.6	25471.0	25309.6	22959.8	14645.8
60°	1438.6	1454.7	1577.3	1969.2	3691.7	10002.6	20447.0	23000.1	24625.8	23185.6	14841.0
62.5°	1100.0	1104.8	1098.3	1145.1	1551.5	4440.0	15455.5	18908.4	21872.8	23016.3	14624.9
65°	953.2	961.3	916.1	904.8	995.1	1583.7	9181.7	13478.2	17187.6	20730.9	13152.4
67.5°	854.8	858.1	803.2	756.4	772.5	856.4	3622.4	7378.5	11376.6	15195.8	9533.3
70°	787.1	783.8	724.1	650.0	629.0	585.4	1151.5	2704.7	5436.8	7706.0	4433.6
72.5°	696.7	698.4	669.3	572.5	522.5	409.7	533.9	788.7	1622.5	2099.9	1038.6
75°	617.7	609.7	574.2	512.9	430.7	269.3	264.5	351.6	500.0	496.7	224.1
77.5°	446.7	438.6	450.0	420.9	330.6	174.2	132.3	169.3	203.3	196.7	62.9
80°	327.4	322.5	290.3	350.0	292.0	119.4	82.2	90.3	104.9	88.7	19.3
82.5°	224.1	222.6	204.8	193.5	166.1	72.5	51.7	56.5	67.7	50.0	9.7
85°	35.5	40.3	148.3	117.7	98.4	32.2	35.5	38.7	45.1	27.4	3.3
87.5°	0.0	0.0	69.4	61.3	19.3	12.9	21.0	22.6	22.6	14.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1	7693.1
2.5°	7722.1	7560.8	7262.4	6954.4	6668.9	6328.6	6094.7	5919.0	5715.7	5660.9	5780.3
5°	7775.3	7470.5	6828.6	6130.2	5473.8	4746.5	4190.0	3749.7	3351.4	3216.0	3338.5
7.5°	7859.1	7406.0	6359.3	5209.4	4067.5	2932.1	2154.7	1643.5	1317.7	1220.9	1272.4
10°	7943.0	7312.5	5815.8	4119.1	2557.9	1427.3	928.9	741.8	672.5	658.1	666.0
12.5°	8012.4	7186.6	5152.9	2928.8	1367.7	764.5	608.0	577.4	567.7	567.7	570.9
15°	8054.3	6996.4	4367.5	1862.8	787.1	577.4	530.6	520.9	520.9	522.5	525.8
17.5°	8049.5	6754.4	3507.8	1127.4	588.7	511.3	483.9	475.8	474.1	477.4	479.0
20°	7989.9	6438.4	2644.9	743.5	512.9	466.1	438.6	424.1	422.6	425.8	429.0
22.5°	7876.9	6048.0	1891.8	572.5	462.9	422.6	388.7	375.8	375.8	379.0	382.3
25°	7739.9	5570.6	1293.4	485.5	417.7	375.8	343.5	332.3	335.4	343.5	345.1
27.5°	7568.9	5033.5	879.0	416.1	362.8	329.0	304.8	296.8	304.8	316.1	319.4
30°	7422.1	4473.9	627.4	359.7	308.0	283.9	269.3	269.3	280.6	301.6	306.5
32.5°	7309.2	3932.0	483.9	317.7	267.7	246.7	238.7	246.7	264.5	285.5	290.3
35°	7294.7	3485.3	409.7	283.9	238.7	217.7	214.5	229.0	246.7	262.9	266.1
37.5°	7406.0	3072.4	369.3	256.5	212.9	193.5	190.3	208.1	225.8	245.1	250.0
40°	7617.3	2748.3	340.3	230.7	191.9	170.9	164.5	177.4	201.6	227.4	233.8
42.5°	7891.5	2480.5	308.0	204.8	170.9	141.9	133.9	148.3	174.2	201.6	209.7
45°	8152.7	2249.9	272.5	175.8	143.5	109.7	106.5	125.8	138.7	166.1	172.6
47.5°	8296.2	2046.6	241.9	143.5	111.3	88.7	88.7	93.5	106.5	138.7	145.2
50°	8247.8	1883.8	209.7	106.5	77.4	67.7	67.7	66.1	85.5	111.3	116.1
52.5°	8151.1	1790.2	180.7	82.2	53.2	48.4	43.6	48.4	59.6	71.0	72.5
55°	8136.6	1774.1	151.6	66.1	37.1	32.2	24.1	24.1	24.1	22.6	19.3
57.5°	8249.5	1799.9	127.5	53.2	27.4	21.0	12.9	0.0	0.0	0.0	0.0
60°	8365.6	1827.3	109.7	37.1	19.3	11.3	1.6	0.0	0.0	0.0	0.0
62.5°	8172.0	1766.0	92.0	22.6	14.5	4.8	0.0	0.0	0.0	0.0	0.0
65°	7178.6	1503.1	72.5	16.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5106.2	1006.4	48.4	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2330.5	420.9	30.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	498.4	130.6	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	101.6	95.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.2	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.3	108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)