

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: P190947

Luminaire Tested: **GAN-AF-09-LED-U-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190947
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-09-LED-U-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 48884.8 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 575
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

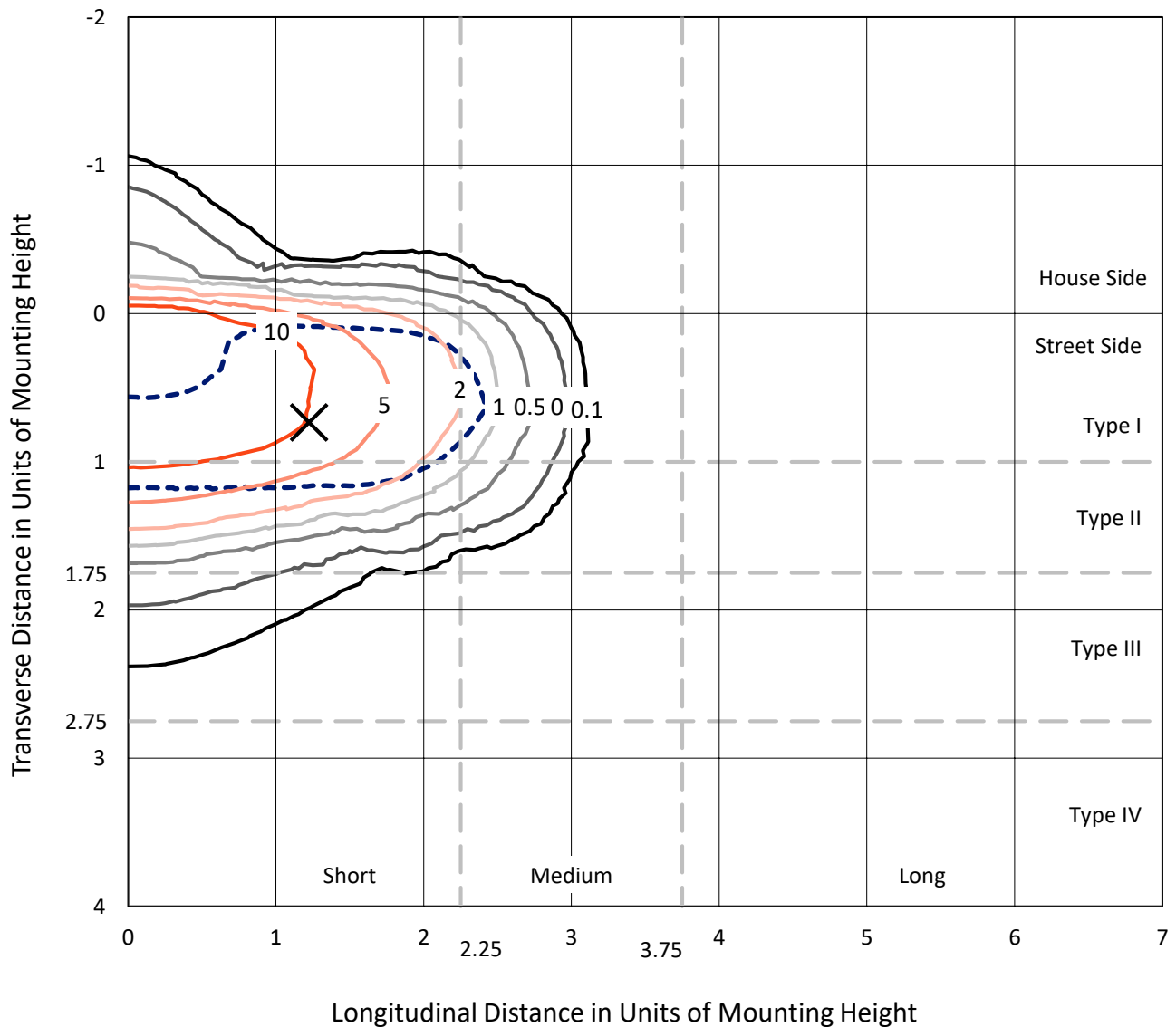


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Iso-Footcandle Lines of Horizontal Illumination

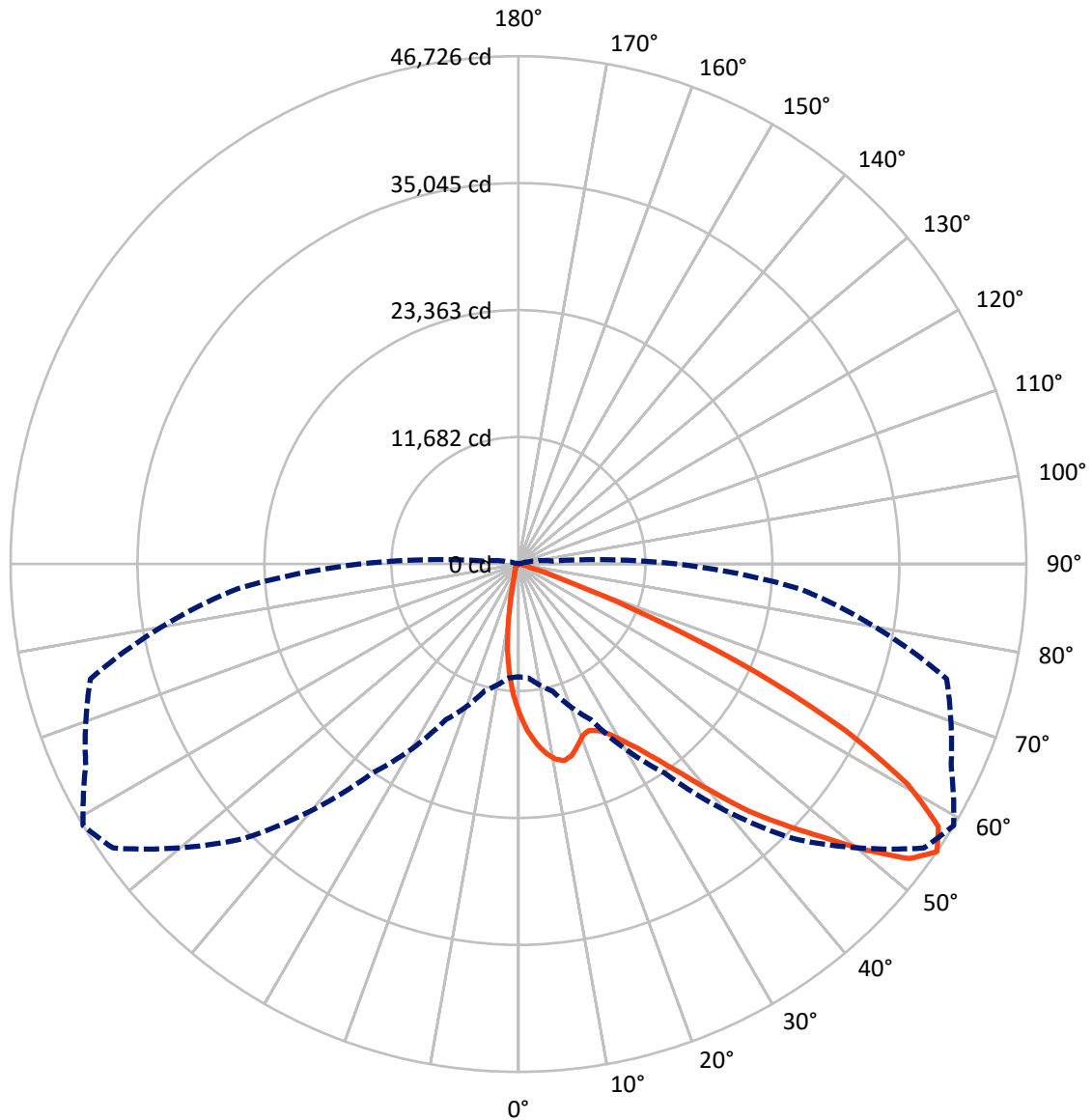
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19 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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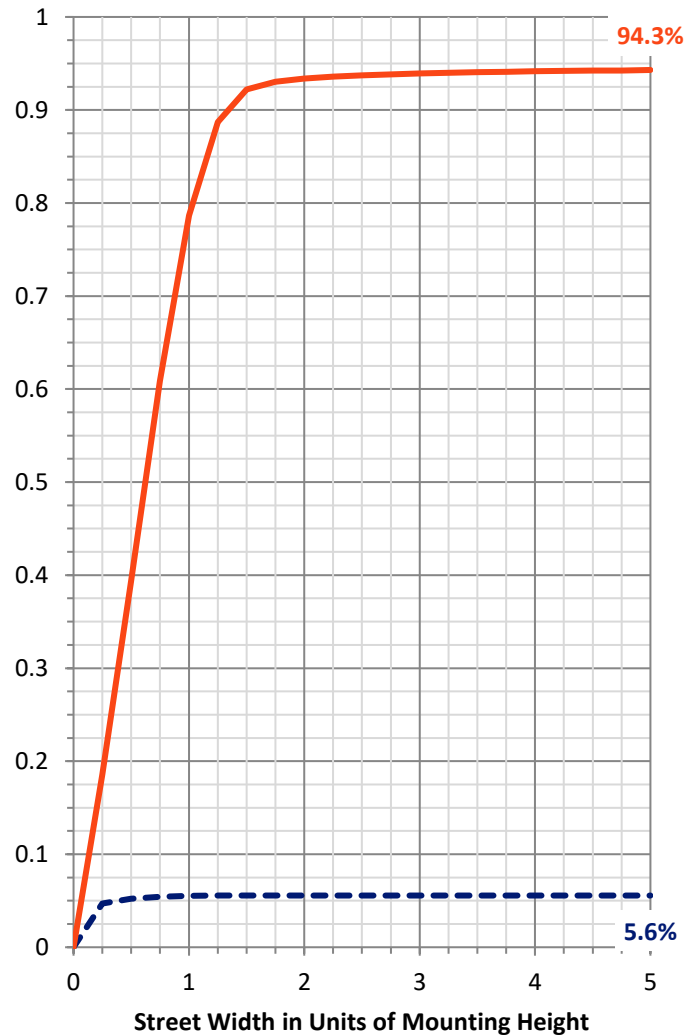
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2730.5	0.0	2730.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	46154.3	0.0	46154.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	48884.8	0.0	48884.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1152.6	2.4
10°-20°	2759.7	5.6
20°-30°	4695.9	9.6
30°-40°	8076.0	16.5
40°-50°	12468.5	25.5
50°-60°	12534.8	25.6
60°-70°	6427.9	13.1
70°-80°	696.6	1.4
80°-90°	72.8	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°	48884.8	100.0
0°-180°	48884.8	100.0

Coefficient of Utilization



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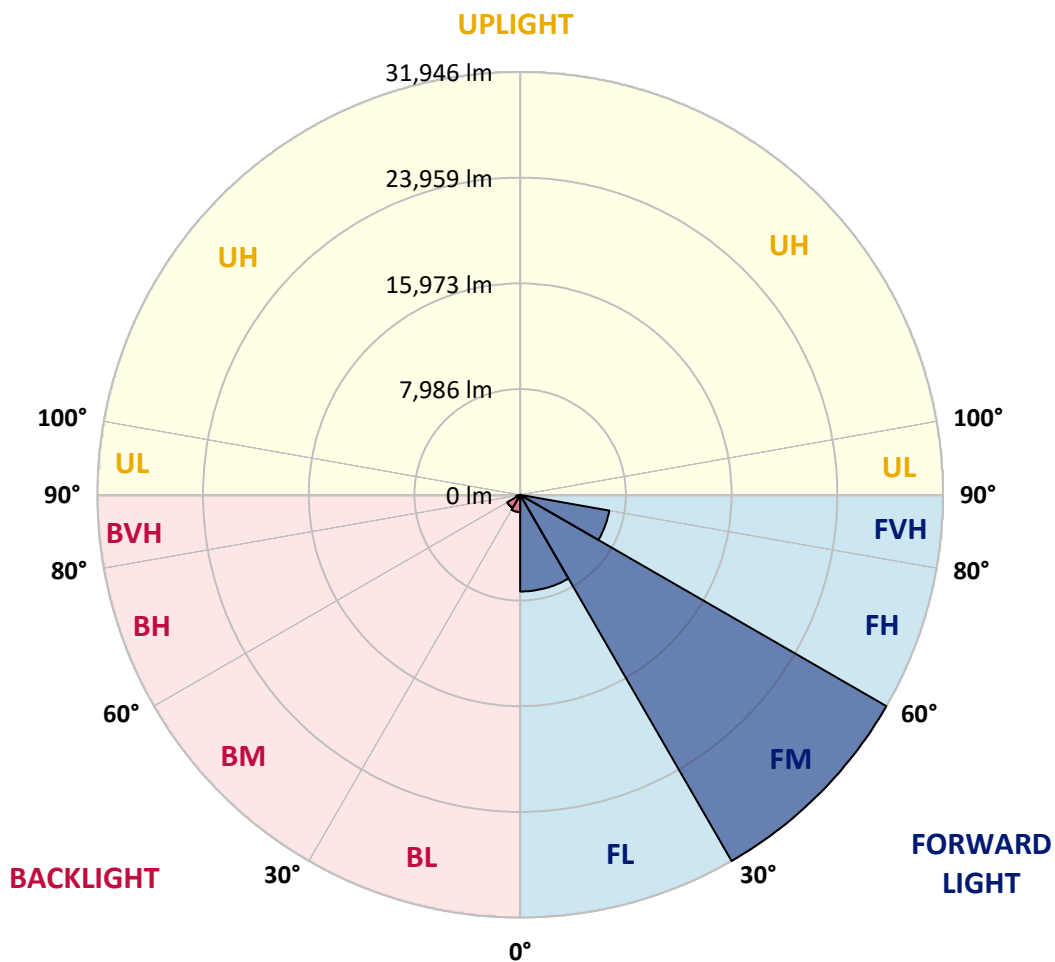
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7305.0	14.9			
FM	(30°-60°)	31946.0	65.3			
FH	(60°-80°)	6832.0	14.0			G3/7500
FVH	(80°-90°)	71.3	0.1			G1/100
BL	(0°-30°)	1303.3	2.7	B3/2500		
BM	(30°-60°)	1133.2	2.3	B2/2500		
BH	(60°-80°)	292.5	0.6	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8
2.5°	16282.3	16109.2	16057.3	16022.7	15863.9	15665.0	15393.8	15266.8	15007.2	14588.8	14075.3
5°	17773.8	17742.1	17626.7	17563.1	17392.9	17110.3	16677.5	16469.8	16057.3	15353.4	14433.0
7.5°	17121.7	17320.8	17479.5	17744.9	18079.5	18068.0	17704.5	17488.2	17026.6	16097.7	14831.2
10°	14603.2	14764.9	15024.5	15627.4	16856.4	17941.1	18368.0	18212.3	17843.0	16781.4	15214.9
12.5°	14110.0	14092.7	14138.8	14314.8	14958.1	16504.4	18255.6	18570.0	18495.0	17407.3	15578.3
15°	14372.5	14352.3	14346.5	14407.1	14562.9	15214.9	17410.2	18313.3	18893.1	17987.3	15887.0
17.5°	15108.2	15021.6	14975.4	14926.4	14880.3	15041.8	16394.8	17594.9	18953.6	18495.0	16143.8
20°	16368.8	16224.6	16054.4	15777.4	15517.8	15437.0	15967.9	16856.4	18737.3	18881.5	16311.2
22.5°	17952.6	17767.9	17473.7	16968.9	16441.0	16135.1	16178.4	16622.6	18414.2	19302.8	16389.0
25°	19732.6	19496.0	19103.7	18402.7	17626.7	17084.3	16801.6	16957.4	18267.0	19796.0	16478.4
27.5°	21639.5	21377.0	20863.5	19908.6	19028.7	18295.9	17718.9	17698.8	18518.1	20442.2	16622.6
30°	23529.1	23488.7	22819.4	21809.7	20644.2	19752.8	18921.9	18815.2	19219.1	21336.6	16908.3
32.5°	26050.5	25747.6	24928.3	23889.7	22545.3	21475.0	20491.3	20243.2	20295.1	22378.1	17349.7
35°	29229.6	28897.8	27744.0	26310.1	24807.1	23543.5	22455.9	22118.3	21991.5	24083.0	18094.0
37.5°	31283.7	31277.8	30553.8	29094.1	27481.4	26088.0	24905.2	24510.0	24253.2	26142.8	19247.9
40°	31338.5	31474.0	31569.3	31554.9	30406.7	29122.9	28072.7	27585.2	26988.1	28895.0	20739.4
42.5°	29656.6	30005.7	30845.1	32270.3	32951.1	32440.5	31554.9	31075.9	30187.4	31840.5	22556.9
45°	27383.3	27625.6	29094.1	31719.2	34330.1	35729.2	35054.2	34197.3	33026.2	34912.8	24186.9
47.5°	26364.9	26408.2	27357.4	30239.3	34434.0	38423.8	38833.4	37440.0	35605.2	37388.0	25462.0
50°	23321.4	23399.3	24709.0	27674.7	33216.5	39696.0	42629.9	41308.6	38417.9	39295.0	25926.5
52.5°	17577.6	17687.2	19348.9	23459.8	29870.1	39153.6	45347.4	45027.2	41499.1	40226.8	25952.4
55°	10371.2	10515.4	12102.1	15791.8	23494.5	35703.3	45549.4	46726.4	43931.0	40777.8	25912.1
57.5°	4843.7	4944.6	5853.4	8135.3	14611.9	28217.1	42508.7	45560.9	45272.4	41069.2	26197.6
60°	2573.3	2602.2	2821.4	3522.4	6603.5	17892.0	36574.6	41141.3	44049.3	41473.1	26546.7
62.5°	1967.4	1976.1	1964.6	2048.3	2775.3	7942.1	27645.9	33822.3	39124.8	41170.2	26160.1
65°	1705.0	1719.4	1638.6	1618.4	1779.9	2833.0	16423.7	24109.0	30744.2	37082.3	23526.2
67.5°	1529.0	1534.7	1436.6	1353.1	1381.9	1531.9	6479.5	13198.3	20350.0	27181.3	17052.5
70°	1407.8	1402.1	1295.4	1162.6	1125.1	1047.2	2059.8	4837.9	9724.9	13784.0	7930.5
72.5°	1246.3	1249.1	1197.3	1024.2	934.7	732.7	954.9	1410.8	2902.2	3756.1	1857.9
75°	1104.9	1090.5	1027.0	917.4	770.3	481.8	473.1	628.9	894.3	888.5	401.0
77.5°	799.1	784.7	804.9	753.0	591.4	311.6	236.6	302.9	363.5	352.0	112.5
80°	585.6	576.9	519.2	626.0	522.1	213.5	147.1	161.5	187.5	158.7	34.6
82.5°	401.0	398.1	366.4	346.2	297.2	129.8	92.3	101.0	121.1	89.4	17.3
85°	63.4	72.1	265.5	210.6	175.9	57.7	63.4	69.3	80.8	49.0	5.7
87.5°	0.0	0.0	124.1	109.7	34.6	23.1	37.5	40.4	40.4	26.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8	13760.8
2.5°	13812.8	13524.3	12990.7	12439.6	11928.9	11320.3	10902.0	10587.5	10224.0	10126.0	10339.4
5°	13908.0	13362.8	12214.5	10965.4	9791.3	8490.2	7495.0	6707.4	5994.8	5752.5	5971.7
7.5°	14058.0	13247.4	11375.1	9318.2	7275.6	5244.7	3854.2	2939.7	2357.0	2183.9	2276.2
10°	14208.1	13080.1	10402.9	7368.0	4575.5	2553.1	1661.7	1327.1	1203.0	1177.0	1191.4
12.5°	14332.1	12855.0	9217.2	5238.9	2446.4	1367.5	1087.6	1032.8	1015.5	1015.5	1021.2
15°	14407.1	12514.6	7812.3	3332.1	1407.8	1032.8	949.1	931.8	931.8	934.7	940.5
17.5°	14398.4	12081.9	6274.6	2016.5	1053.0	914.5	865.4	851.0	848.1	854.0	856.8
20°	14291.7	11516.5	4731.2	1329.9	917.4	833.7	784.7	758.7	755.9	761.6	767.4
22.5°	14089.7	10818.3	3383.9	1024.2	828.0	755.9	695.3	672.2	672.2	677.9	683.7
25°	13844.5	9964.4	2313.7	868.4	747.2	672.2	614.5	594.3	600.1	614.5	617.4
27.5°	13538.8	9003.7	1572.3	744.3	649.1	588.5	545.2	530.8	545.2	565.5	571.2
30°	13276.3	8002.6	1122.2	643.3	551.1	507.7	481.8	481.8	502.0	539.5	548.1
32.5°	13074.3	7033.3	865.4	568.4	478.8	441.4	427.0	441.4	473.1	510.7	519.2
35°	13048.4	6234.3	732.7	507.7	427.0	389.4	383.7	409.7	441.4	470.3	476.0
37.5°	13247.4	5495.7	660.6	458.7	380.8	346.2	340.4	372.1	403.9	438.5	447.1
40°	13625.3	4915.8	608.8	412.6	343.3	305.8	294.3	317.3	360.6	406.7	418.3
42.5°	14115.7	4436.9	551.1	366.4	305.8	253.9	239.5	265.5	311.6	360.6	375.0
45°	14583.1	4024.4	487.5	314.5	256.8	196.2	190.4	225.0	248.1	297.2	308.7
47.5°	14839.8	3660.9	432.7	256.8	199.1	158.7	158.7	167.4	190.4	248.1	259.6
50°	14753.3	3369.5	375.0	190.4	138.5	121.1	121.1	118.3	152.9	199.1	207.8
52.5°	14580.2	3202.2	323.2	147.1	95.2	86.5	77.8	86.5	106.7	126.9	129.8
55°	14554.2	3173.4	271.2	118.3	66.4	57.7	43.3	43.3	43.3	40.4	34.6
57.5°	14756.2	3219.5	227.9	95.2	49.0	37.5	23.1	0.0	0.0	0.0	0.0
60°	14963.9	3268.5	196.2	66.4	34.6	20.2	2.9	0.0	0.0	0.0	0.0
62.5°	14617.7	3159.0	164.4	40.4	26.0	8.7	0.0	0.0	0.0	0.0	0.0
65°	12840.6	2688.7	129.8	28.8	17.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9133.5	1800.2	86.5	17.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4168.6	753.0	54.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	891.4	233.6	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	181.8	170.2	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	57.7	268.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.6	193.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.7	28.8	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)