

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: P191748

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191748
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-10-LED-U-AFL-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 52908 lumens
Efficiency: N/A
Efficacy: 82.7 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): 640
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

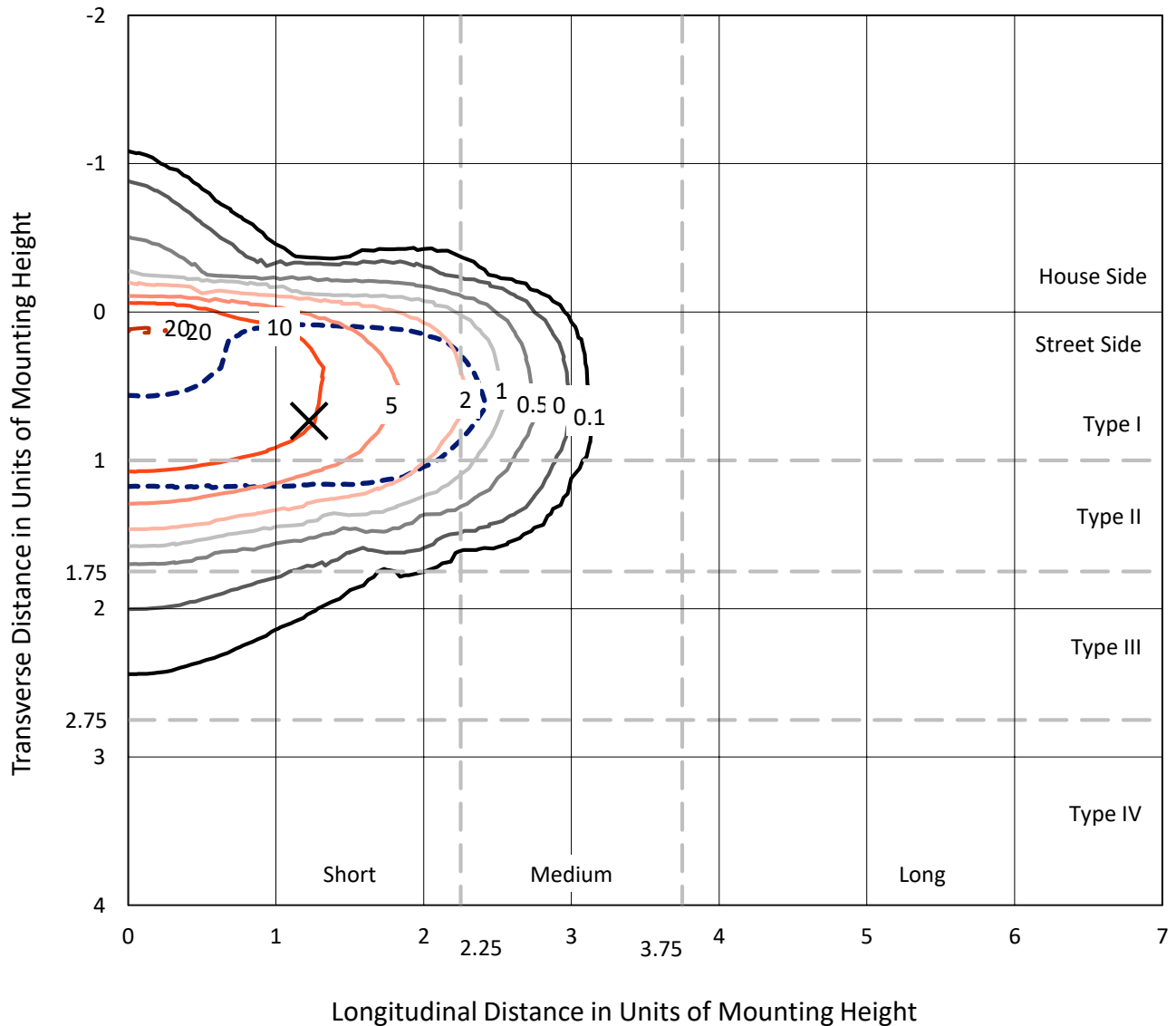


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

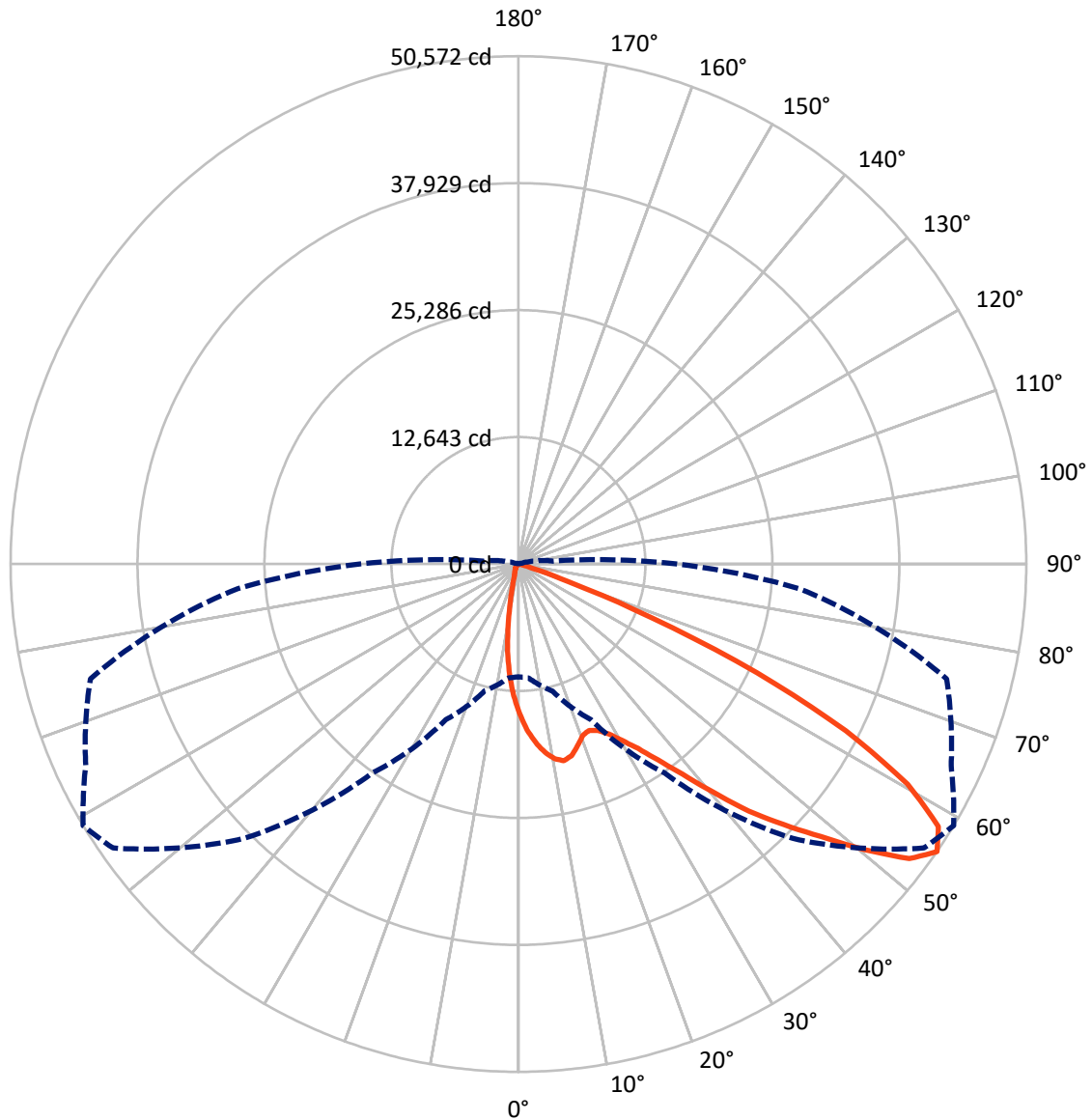


Based on 30 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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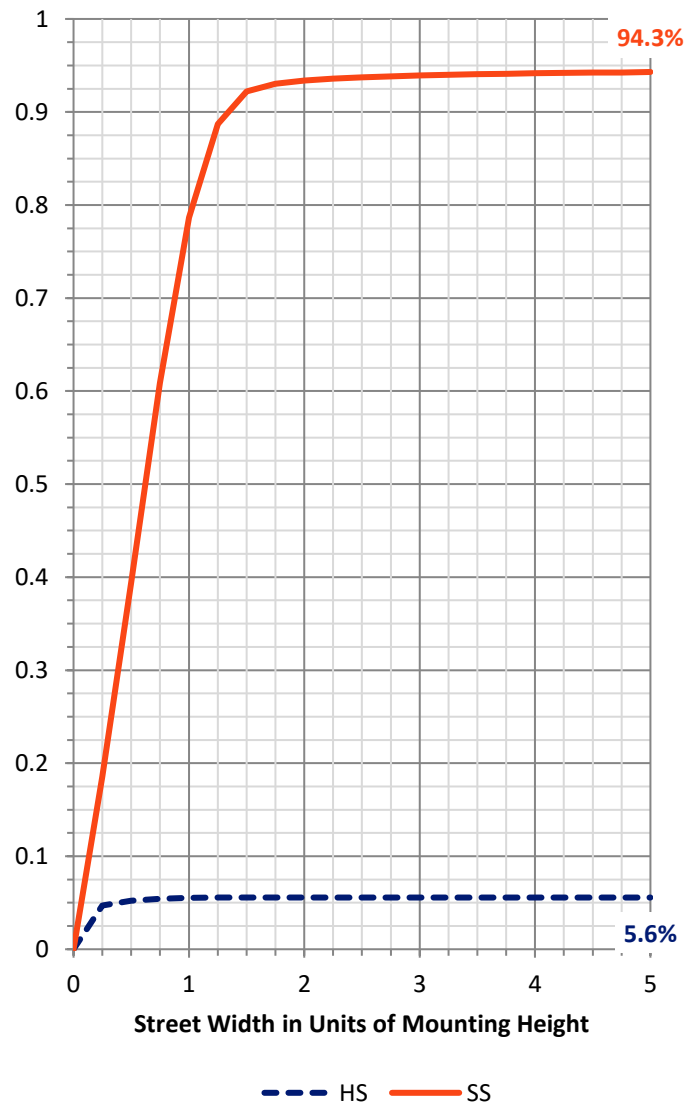
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2955.2	0.0	2955.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	49952.8	0.0	49952.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	52908.0	0.0	52908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.5	2.4
10°-20°	2986.8	5.6
20°-30°	5082.4	9.6
30°-40°	8740.6	16.5
40°-50°	13494.6	25.5
50°-60°	13566.4	25.6
60°-70°	6956.9	13.1
70°-80°	753.9	1.4
80°-90°	78.8	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°	52908.0	100.0
0°-180°	52908.0	100.0

Coefficient of Utilization



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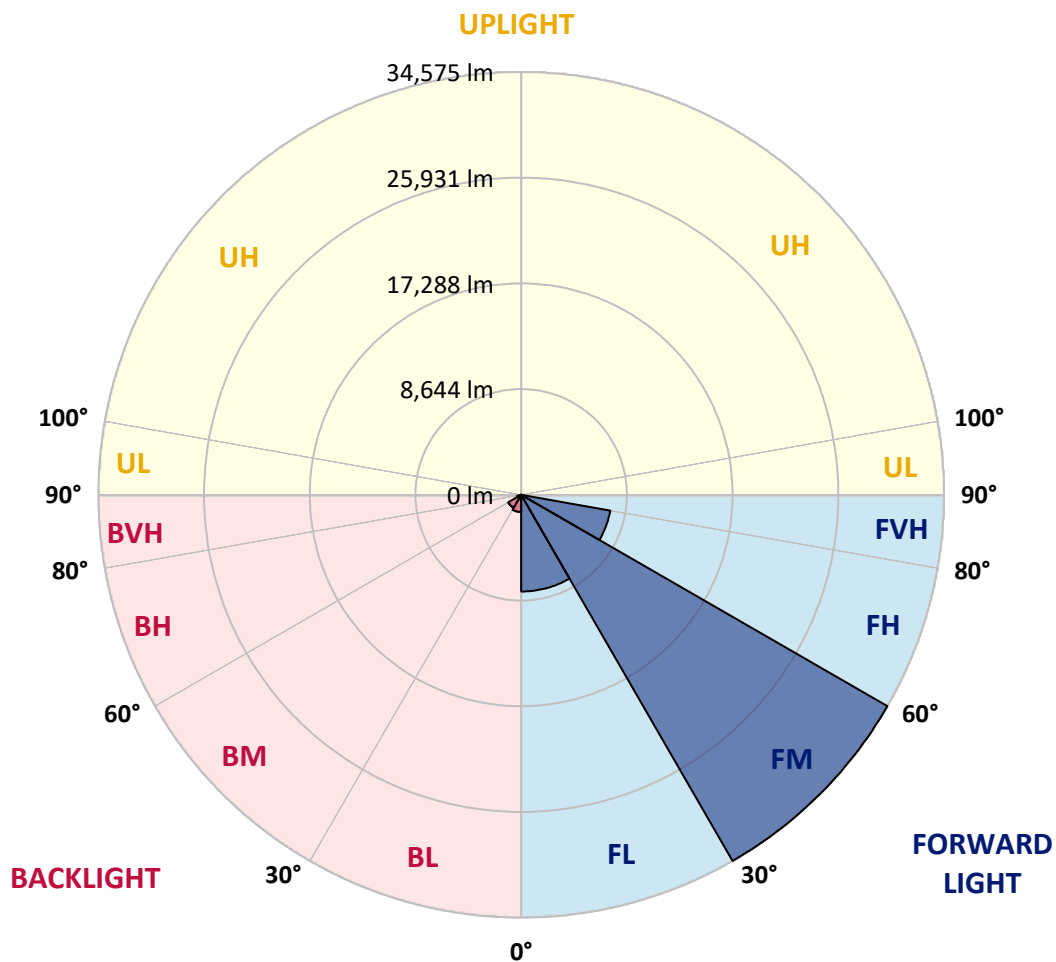
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7906.2	14.9			
FM	(30°-60°)	34575.2	65.3			
FH	(60°-80°)	7394.3	14.0			G3/7500
FVH	(80°-90°)	77.2	0.1			G1/100
BL	(0°-30°)	1410.5	2.7	B3/2500		
BM	(30°-60°)	1226.5	2.3	B2/2500		
BH	(60°-80°)	316.6	0.6	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4
2.5°	17622.3	17435.0	17378.8	17341.3	17169.6	16954.1	16660.6	16523.3	16242.2	15789.5	15233.7
5°	19236.5	19202.2	19077.3	19008.6	18824.4	18518.4	18050.1	17825.3	17378.8	16616.9	15620.9
7.5°	18530.9	18746.3	18918.1	19205.3	19567.5	19555.0	19161.6	18927.4	18427.9	17422.5	16051.8
10°	15805.1	15980.0	16261.0	16913.5	18243.6	19417.6	19879.7	19711.1	19311.5	18162.5	16467.1
12.5°	15271.2	15252.5	15302.4	15492.9	16189.2	17862.7	19758.0	20098.3	20017.1	18840.0	16860.5
15°	15555.3	15533.5	15527.2	15592.8	15761.4	16467.1	18843.1	19820.4	20448.0	19467.6	17194.6
17.5°	16351.5	16257.9	16207.9	16154.8	16104.9	16279.7	17744.1	19043.0	20513.6	20017.1	17472.4
20°	17716.0	17559.9	17375.6	17075.9	16794.9	16707.5	17282.0	18243.6	20279.4	20435.5	17653.5
22.5°	19430.1	19230.3	18911.8	18365.4	17794.0	17463.1	17509.9	17990.7	19929.7	20891.4	17737.8
25°	21356.6	21100.6	20675.9	19917.2	19077.3	18490.3	18184.3	18352.9	19770.5	21425.3	17834.6
27.5°	23420.4	23136.3	22580.5	21547.1	20594.7	19801.7	19177.2	19155.4	20042.1	22124.7	17990.7
30°	25465.5	25421.8	24697.5	23604.7	22343.2	21378.4	20479.2	20363.7	20800.8	23092.6	18299.8
32.5°	28194.4	27866.6	26979.9	25855.8	24400.8	23242.5	22177.8	21909.2	21965.4	24219.7	18777.6
35°	31635.2	31276.2	30027.2	28475.5	26848.7	25481.2	24304.0	23938.7	23801.4	26065.0	19583.1
37.5°	33858.3	33852.1	33068.4	31488.5	29743.1	28235.0	26954.9	26527.1	26249.2	28294.4	20832.0
40°	33917.6	34064.4	34167.4	34151.8	32909.1	31519.7	30383.2	29855.5	29209.2	31273.0	22446.3
42.5°	32097.3	32475.1	33383.7	34926.1	35663.0	35110.4	34151.8	33633.5	32671.8	34460.9	24413.3
45°	29637.0	29899.2	31488.5	34329.8	37155.5	38669.8	37939.2	37011.8	35744.2	37786.2	26177.4
47.5°	28534.8	28581.6	29608.9	32728.0	37267.9	41586.0	42029.4	40521.3	38535.5	40465.1	27557.5
50°	25240.7	25325.0	26742.6	29952.3	35950.3	42963.0	46138.4	44708.3	41579.8	42529.0	28060.2
52.5°	19024.2	19142.9	20941.3	25390.6	32328.4	42376.0	49079.6	48733.0	44914.4	43537.5	28088.3
55°	11224.7	11380.8	13098.1	17091.5	25428.1	38641.7	49298.1	50572.0	47546.5	44133.8	28044.6
57.5°	5242.4	5351.6	6335.2	8804.9	15814.5	30539.3	46007.2	49310.6	48998.4	44449.2	28353.7
60°	2785.1	2816.3	3053.6	3812.3	7147.0	19364.6	39584.6	44527.2	47674.5	44886.3	28731.5
62.5°	2129.4	2138.8	2126.3	2216.8	3003.7	8595.7	29921.1	36605.9	42344.7	44558.5	28313.1
65°	1845.3	1860.9	1773.5	1751.6	1926.5	3066.1	17775.3	26093.1	33274.4	40134.2	25462.4
67.5°	1654.8	1661.1	1554.9	1464.4	1495.6	1657.9	7012.7	14284.6	22024.8	29418.4	18456.0
70°	1523.7	1517.4	1401.9	1258.3	1217.7	1133.4	2229.3	5236.1	10525.3	14918.4	8583.2
72.5°	1348.8	1352.0	1295.8	1108.4	1011.6	793.1	1033.5	1526.8	3141.0	4065.2	2010.8
75°	1195.8	1180.2	1111.5	992.9	833.7	521.4	512.1	680.7	967.9	961.7	434.0
77.5°	864.9	849.3	871.1	814.9	640.1	337.2	256.0	327.8	393.4	380.9	121.8
80°	633.8	624.5	562.0	677.5	565.1	231.1	159.2	174.8	203.0	171.7	37.5
82.5°	434.0	430.9	396.5	374.7	321.6	140.5	99.9	109.3	131.1	96.8	18.7
85°	68.7	78.1	287.3	227.9	190.5	62.4	68.7	74.9	87.4	53.1	6.2
87.5°	0.0	0.0	134.3	118.6	37.5	25.0	40.6	43.7	43.7	28.1	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°	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4	14893.4
2.5°	14949.6	14637.4	14059.8	13463.4	12910.7	12251.9	11799.2	11458.9	11065.5	10959.3	11190.4
5°	15052.6	14462.5	13219.9	11867.9	10597.1	9189.0	8111.8	7259.4	6488.2	6225.9	6463.2
7.5°	15215.0	14337.6	12311.3	10085.1	7874.5	5676.4	4171.4	3181.6	2550.9	2363.6	2463.5
10°	15377.4	14156.5	11259.0	7974.4	4952.0	2763.2	1798.4	1436.3	1302.0	1273.9	1289.5
12.5°	15511.6	13913.0	9975.8	5670.1	2647.7	1480.0	1177.1	1117.8	1099.1	1099.1	1105.3
15°	15592.8	13544.6	8455.2	3606.3	1523.7	1117.8	1027.2	1008.5	1008.5	1011.6	1017.9
17.5°	15583.4	13076.2	6791.0	2182.5	1139.6	989.8	936.7	921.1	918.0	924.2	927.3
20°	15467.9	12464.3	5120.6	1439.4	992.9	902.3	849.3	821.2	818.0	824.3	830.5
22.5°	15249.4	11708.7	3662.5	1108.4	896.1	818.0	752.5	727.5	727.5	733.7	740.0
25°	14984.0	10784.5	2504.1	939.8	808.7	727.5	665.1	643.2	649.4	665.1	668.2
27.5°	14653.0	9744.7	1701.7	805.6	702.5	637.0	590.1	574.5	590.1	612.0	618.2
30°	14368.9	8661.3	1214.6	696.3	596.4	549.5	521.4	521.4	543.3	583.9	593.2
32.5°	14150.3	7612.2	936.7	615.1	518.3	477.7	462.1	477.7	512.1	552.6	562.0
35°	14122.2	6747.3	793.1	549.5	462.1	421.5	415.3	443.4	477.7	508.9	515.2
37.5°	14337.6	5948.0	715.0	496.4	412.1	374.7	368.4	402.8	437.1	474.6	484.0
40°	14746.7	5320.4	658.8	446.5	371.6	331.0	318.5	343.5	390.3	440.2	452.7
42.5°	15277.5	4802.1	596.4	396.5	331.0	274.8	259.2	287.3	337.2	390.3	405.9
45°	15783.3	4355.6	527.7	340.3	277.9	212.3	206.1	243.5	268.5	321.6	334.1
47.5°	16061.2	3962.2	468.3	277.9	215.4	171.7	171.7	181.1	206.1	268.5	281.0
50°	15967.5	3646.9	405.9	206.1	149.9	131.1	131.1	128.0	165.5	215.4	224.8
52.5°	15780.1	3465.8	349.7	159.2	103.0	93.7	84.3	93.7	115.5	137.4	140.5
55°	15752.0	3434.5	293.5	128.0	71.8	62.4	46.8	46.8	46.8	43.7	37.5
57.5°	15970.6	3484.5	246.7	103.0	53.1	40.6	25.0	0.0	0.0	0.0	0.0
60°	16195.4	3537.6	212.3	71.8	37.5	21.9	3.1	0.0	0.0	0.0	0.0
62.5°	15820.7	3418.9	178.0	43.7	28.1	9.4	0.0	0.0	0.0	0.0	0.0
65°	13897.4	2910.0	140.5	31.2	18.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9885.2	1948.3	93.7	18.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	4511.7	814.9	59.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	964.8	252.9	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	196.7	184.2	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.4	290.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.5	209.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	31.2	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)