

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: P322861

Luminaire Tested: **GAN-SA7D-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36226 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

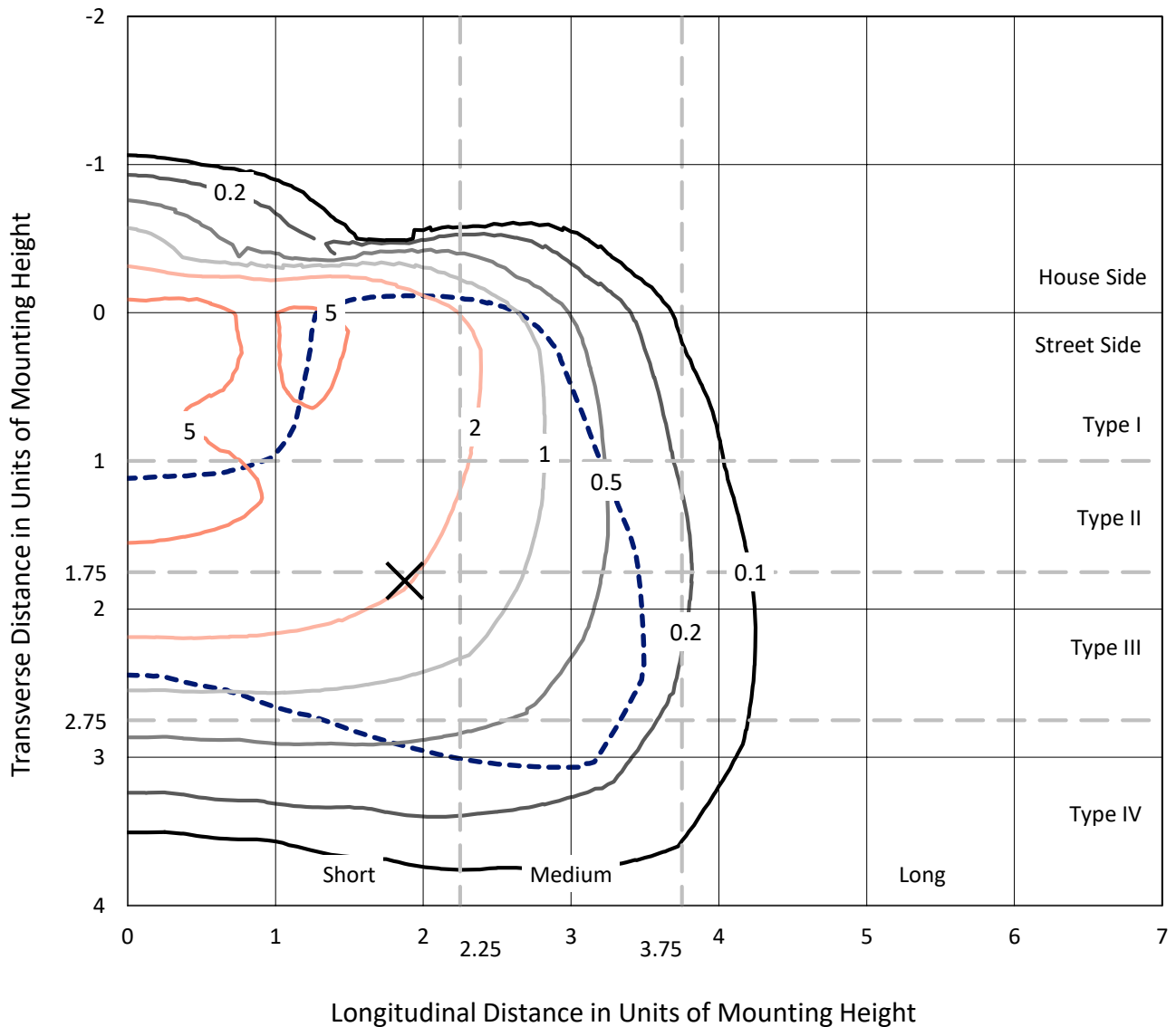
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

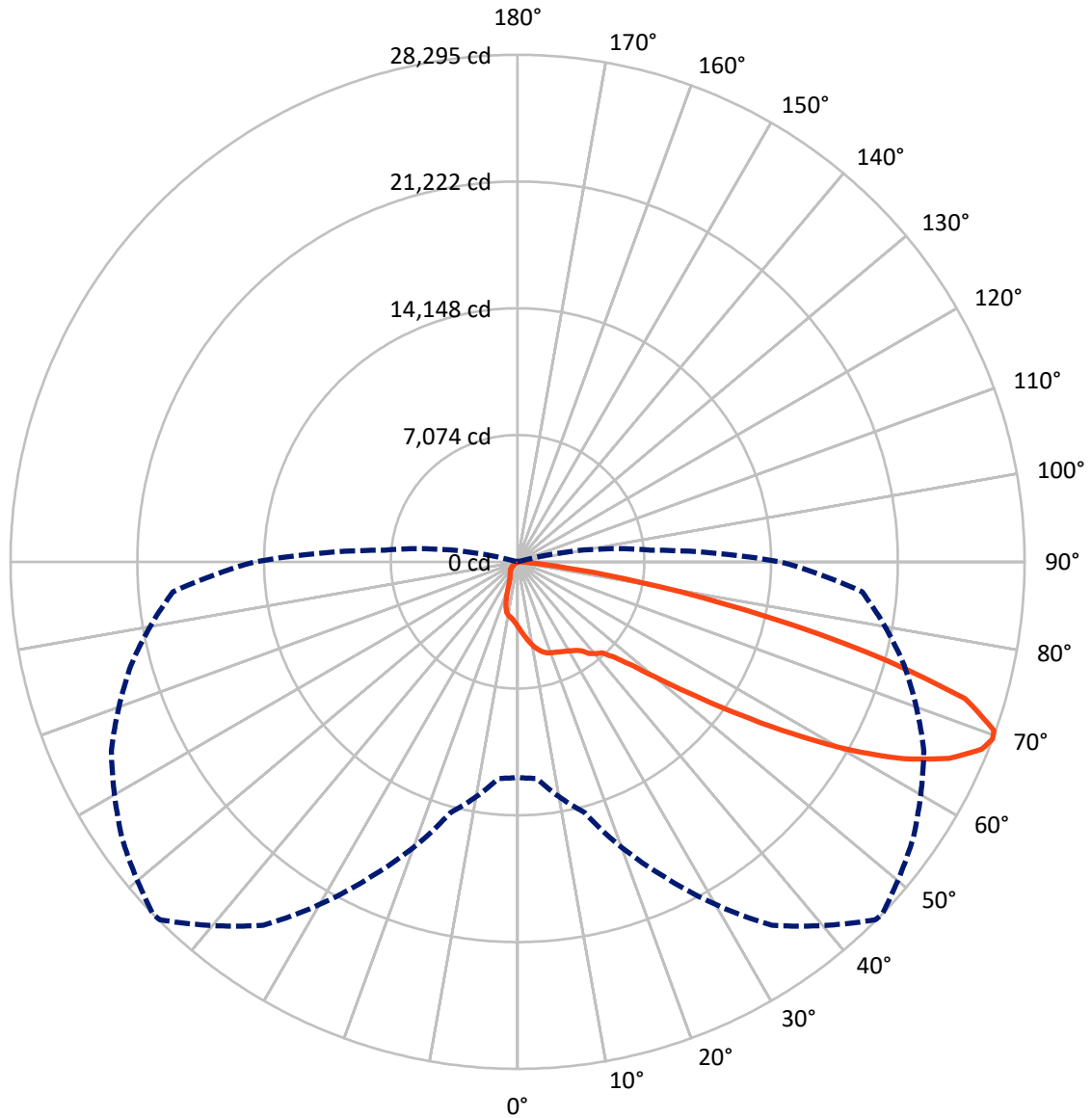
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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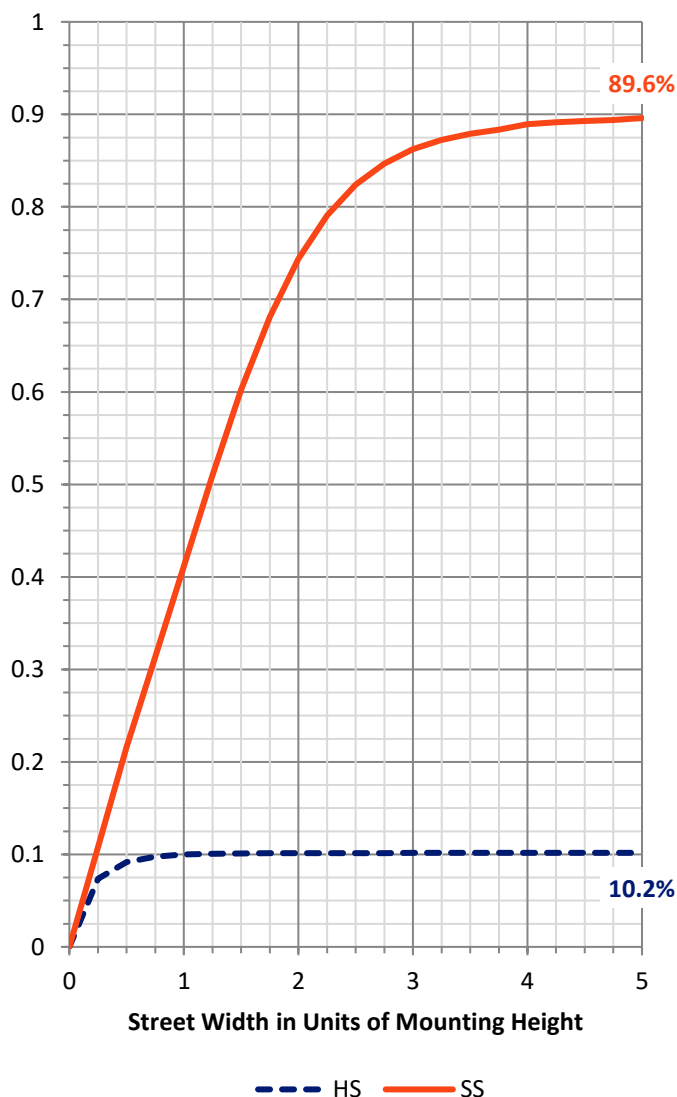
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3717.8	0.0	3717.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	32508.2	0.0	32508.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	36226.0	0.0	36226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.3	1.0
10°-20°	1096.0	3.0
20°-30°	1723.7	4.8
30°-40°	2471.8	6.8
40°-50°	4272.2	11.8
50°-60°	8440.1	23.3
60°-70°	11795.8	32.6
70°-80°	5698.7	15.7
80°-90°	366.3	1.0
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°	36226.0	100.0
0°-180°	36226.0	100.0

Coefficient of Utilization

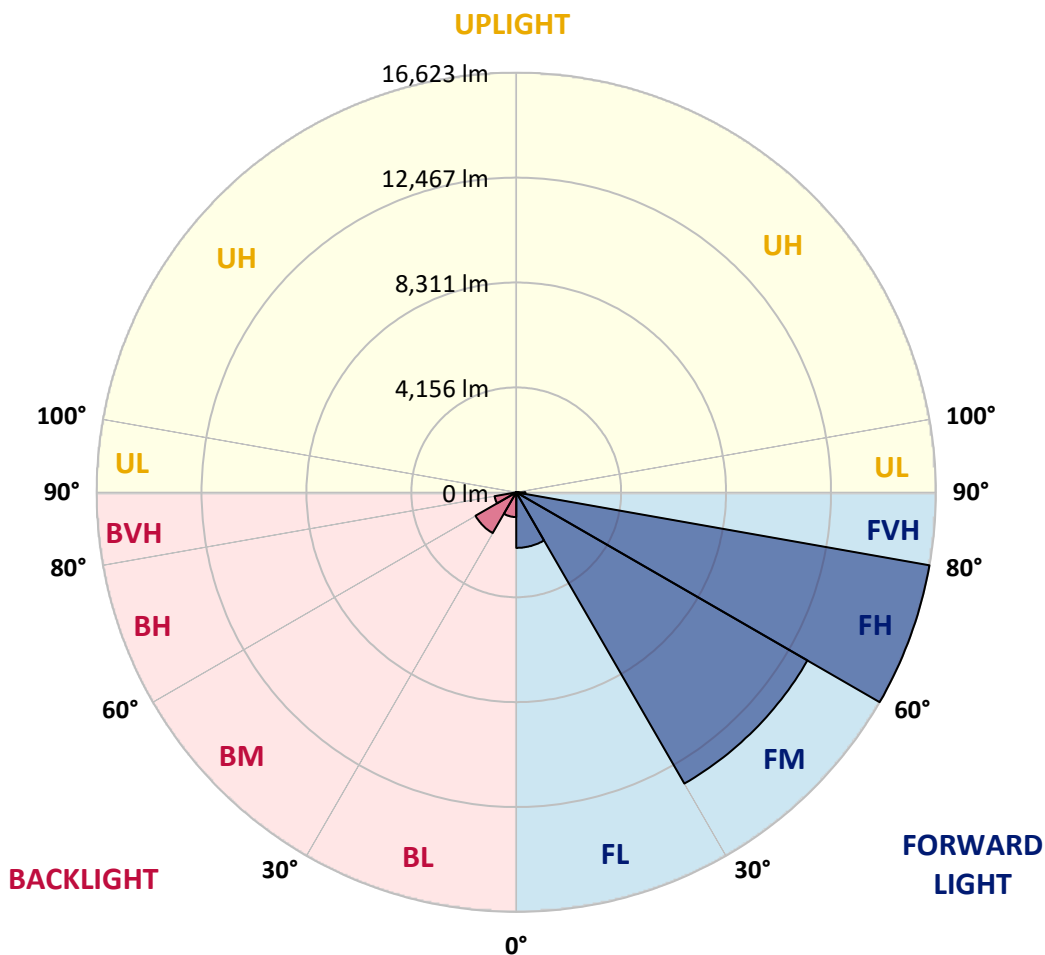


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.2	6.1			
FM (30°-60°)	13321.1	36.8			
FH (60°-80°)	16622.8	45.9			G5
FVH (80°-90°)	363.2	1.0			G3/500
BL (0°-30°)	979.9	2.7	B2/1000		
BM (30°-60°)	1863.1	5.1	B2/2500		
BH (60°-80°)	871.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7
2.5°	4032.3	4027.2	4003.4	3993.2	3935.4	3901.5	3887.9	3845.4	3784.3	3723.1	3655.2
5°	4490.9	4489.2	4445.0	4402.5	4293.8	4191.9	4173.2	4074.7	3937.1	3808.1	3679.0
7.5°	4959.6	4937.6	4893.4	4811.9	4653.9	4490.9	4475.6	4336.3	4141.0	3954.1	3769.0
10°	5357.1	5343.5	5285.8	5161.8	4976.6	4791.5	4772.8	4601.3	4380.4	4151.2	3915.1
12.5°	5666.2	5656.0	5579.6	5425.0	5228.0	5036.1	5010.6	4857.7	4621.6	4365.2	4086.6
15°	5854.8	5849.7	5756.2	5591.5	5397.9	5231.4	5209.3	5075.1	4856.0	4587.7	4273.4
17.5°	5898.9	5900.6	5803.8	5637.3	5477.7	5358.8	5341.8	5239.9	5056.5	4789.8	4460.3
20°	5800.4	5820.8	5734.2	5589.8	5491.3	5428.4	5414.8	5353.7	5199.1	4947.8	4609.7
22.5°	5661.1	5671.3	5611.9	5515.1	5474.3	5486.2	5479.4	5445.4	5314.6	5083.6	4757.5
25°	5576.2	5576.2	5540.5	5459.0	5486.2	5559.2	5560.9	5554.1	5450.5	5250.1	4937.6
27.5°	5572.8	5562.6	5521.8	5460.7	5535.4	5647.5	5654.3	5700.2	5635.6	5452.2	5161.8
30°	5708.7	5696.8	5610.2	5530.3	5625.5	5746.0	5763.0	5863.2	5831.0	5671.3	5411.4
32.5°	6026.3	5983.8	5791.9	5661.1	5732.5	5876.8	5898.9	6058.6	6109.5	5941.4	5652.6
35°	6461.1	6326.9	6050.1	5909.1	5915.9	6067.1	6087.4	6321.8	6473.0	6189.4	5839.5
37.5°	7060.7	6994.5	6544.3	6167.3	6197.9	6427.2	6486.6	6741.4	6698.9	6325.2	6051.8
40°	8375.3	8271.7	7792.8	6890.8	6467.9	6719.3	6738.0	6873.9	6877.3	6632.7	6493.4
42.5°	10165.6	10123.1	9618.6	8203.8	6999.5	6914.6	6948.6	7177.9	7434.4	7281.5	7274.7
45°	12147.7	12125.6	11590.6	9946.5	8074.7	7555.0	7597.4	7904.9	8395.7	8429.7	8645.4
47.5°	13742.6	13732.4	13425.0	11891.2	9720.6	8640.3	8653.9	8980.0	9842.8	10269.2	10614.0
50°	15196.5	15245.8	15002.9	13995.7	11962.6	10340.5	10308.2	10525.6	11911.6	12609.7	13037.7
52.5°	17217.8	17287.4	16606.3	15959.2	14315.0	12450.1	12424.6	12652.2	14398.2	14921.4	14997.8
55°	19002.9	18884.0	18345.6	18158.7	17183.8	15055.6	15048.8	15249.2	16803.3	17025.8	17166.8
57.5°	19791.0	19745.1	20005.0	20433.0	20188.5	18135.0	18119.7	17966.8	18955.3	18979.1	19412.2
60°	20288.7	20344.7	21141.3	22461.1	23070.8	21448.7	21350.2	20417.8	21010.5	20957.9	21421.6
62.5°	19915.0	20025.4	21458.9	23658.5	25227.9	24341.3	24202.0	22663.2	22766.8	22585.0	23016.5
65°	17931.1	18102.7	20451.7	23432.6	26298.0	26602.0	26461.0	24645.3	24161.3	23862.3	23622.8
67.5°	14559.6	14661.5	17114.2	21467.4	25815.6	27950.6	27921.8	26382.9	25214.3	23646.6	21788.4
69°	12032.2	12132.4	14493.4	19398.7	24754.0	28239.4	28295.4	26940.0	25013.9	22335.4	19305.2
70°	10191.0	10298.0	12497.6	17625.4	23522.6	28105.2	28205.4	26887.4	24439.8	20816.9	17126.0
72.5°	5345.2	5436.9	7694.2	12142.6	19176.1	25807.1	26111.2	24614.8	20716.7	15118.4	10126.5
75°	1679.8	1732.5	3004.7	6347.3	13129.5	20066.2	20135.8	19308.6	14710.8	8315.9	4217.4
77.5°	640.3	625.1	1000.4	2338.8	6637.8	12635.2	13061.5	12066.2	7719.7	2940.1	973.2
80°	344.8	346.5	519.7	968.1	2839.9	6493.4	6853.5	5848.0	2743.1	917.2	224.2
82.5°	149.5	156.3	292.1	512.9	1304.5	2394.9	2574.9	2143.5	1048.0	616.6	83.2
85°	32.3	35.7	141.0	278.6	531.6	672.6	704.9	694.7	667.5	479.0	32.3
87.5°	0.0	0.0	62.8	100.2	134.2	152.9	134.2	174.9	368.6	322.7	17.0
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°	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7	3629.7
2.5°	3633.1	3602.5	3549.9	3492.1	3451.4	3408.9	3374.9	3359.6	3342.7	3330.8	3346.1
5°	3626.3	3566.9	3465.0	3366.4	3295.1	3237.4	3189.8	3171.1	3152.4	3138.8	3137.1
7.5°	3685.8	3602.5	3446.3	3301.9	3191.5	3113.4	3048.8	3021.6	2999.6	2989.4	2980.9
10°	3799.6	3692.6	3483.6	3295.1	3152.4	3019.9	2880.7	2773.7	2704.0	2671.8	2659.9
12.5°	3947.3	3813.1	3555.0	3330.8	3123.6	2868.8	2573.2	2318.5	2153.7	2099.4	2067.1
15°	4120.6	3954.1	3648.4	3376.6	3018.2	2552.9	2051.8	1718.9	1566.0	1535.5	1501.5
17.5°	4287.0	4103.6	3760.5	3385.1	2787.3	2039.9	1503.2	1277.3	1217.8	1238.2	1243.3
20°	4433.1	4251.4	3870.9	3310.4	2367.7	1530.4	1163.5	1107.4	1129.5	1168.6	1175.4
22.5°	4580.9	4394.0	3972.8	3113.4	1831.0	1161.8	1048.0	1061.6	1083.6	1122.7	1129.5
25°	4760.9	4567.3	4067.9	2751.6	1374.1	988.5	995.3	1015.7	1037.8	1073.5	1076.9
27.5°	4968.1	4786.4	4130.8	2281.1	1019.1	908.7	930.8	961.4	983.4	1017.4	1024.2
30°	5243.3	5075.1	4151.2	1793.6	854.3	837.4	847.6	884.9	917.2	947.8	952.9
32.5°	5501.5	5360.5	4083.2	1353.7	791.5	771.1	771.1	793.2	830.6	859.4	866.2
35°	5739.3	5647.5	3865.8	990.2	743.9	710.0	693.0	693.0	716.8	740.5	747.3
37.5°	6053.5	6050.1	3514.2	789.8	698.1	659.0	623.4	596.2	587.7	592.8	596.2
40°	6591.9	6597.0	3055.6	708.3	659.0	606.4	552.0	502.8	456.9	441.6	439.9
42.5°	7432.7	7356.2	2574.9	669.2	625.1	552.0	470.5	404.2	332.9	310.8	309.1
45°	8767.7	8314.2	2065.4	633.5	589.4	490.9	389.0	298.9	241.2	224.2	224.2
47.5°	10712.5	9572.8	1600.0	594.5	541.8	421.2	293.8	215.7	176.6	168.2	169.9
50°	12723.5	10805.9	1226.3	545.2	484.1	348.2	217.4	156.3	134.2	134.2	135.9
52.5°	14506.9	11709.5	956.3	492.6	412.7	273.5	164.8	122.3	112.1	110.4	112.1
55°	16176.6	12292.1	732.1	431.4	327.8	203.8	125.7	100.2	93.4	90.0	88.3
57.5°	17786.8	12580.8	548.6	348.2	237.8	147.8	100.2	84.9	78.1	73.0	71.3
60°	18858.5	12346.4	377.1	256.5	164.8	107.0	83.2	73.0	64.5	59.4	57.7
62.5°	19463.2	11706.1	242.9	185.1	117.2	79.8	66.2	61.1	49.3	44.2	44.2
65°	19218.6	10649.6	169.9	132.5	84.9	59.4	49.3	49.3	35.7	28.9	27.2
67.5°	17030.9	8997.0	129.1	98.5	61.1	44.2	37.4	42.5	22.1	13.6	13.6
69°	14653.0	7456.4	110.4	81.5	51.0	35.7	32.3	39.1	15.3	10.2	8.5
70°	12735.4	6432.2	100.2	71.3	42.5	30.6	28.9	37.4	15.3	8.5	6.8
72.5°	7619.5	3587.2	76.4	51.0	27.2	23.8	23.8	42.5	15.3	8.5	6.8
75°	3079.4	1263.7	56.1	35.7	20.4	20.4	28.9	54.4	13.6	6.8	5.1
77.5°	698.1	276.9	32.3	22.1	13.6	20.4	34.0	42.5	8.5	3.4	0.0
80°	169.9	67.9	20.4	13.6	8.5	15.3	25.5	23.8	1.7	0.0	0.0
82.5°	56.1	23.8	8.5	6.8	1.7	5.1	11.9	6.8	0.0	0.0	0.0
85°	23.8	13.6	3.4	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
87.5°	15.3	5.1	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)