

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: P321259

Luminaire Tested: **GAN-SA5D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28507 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

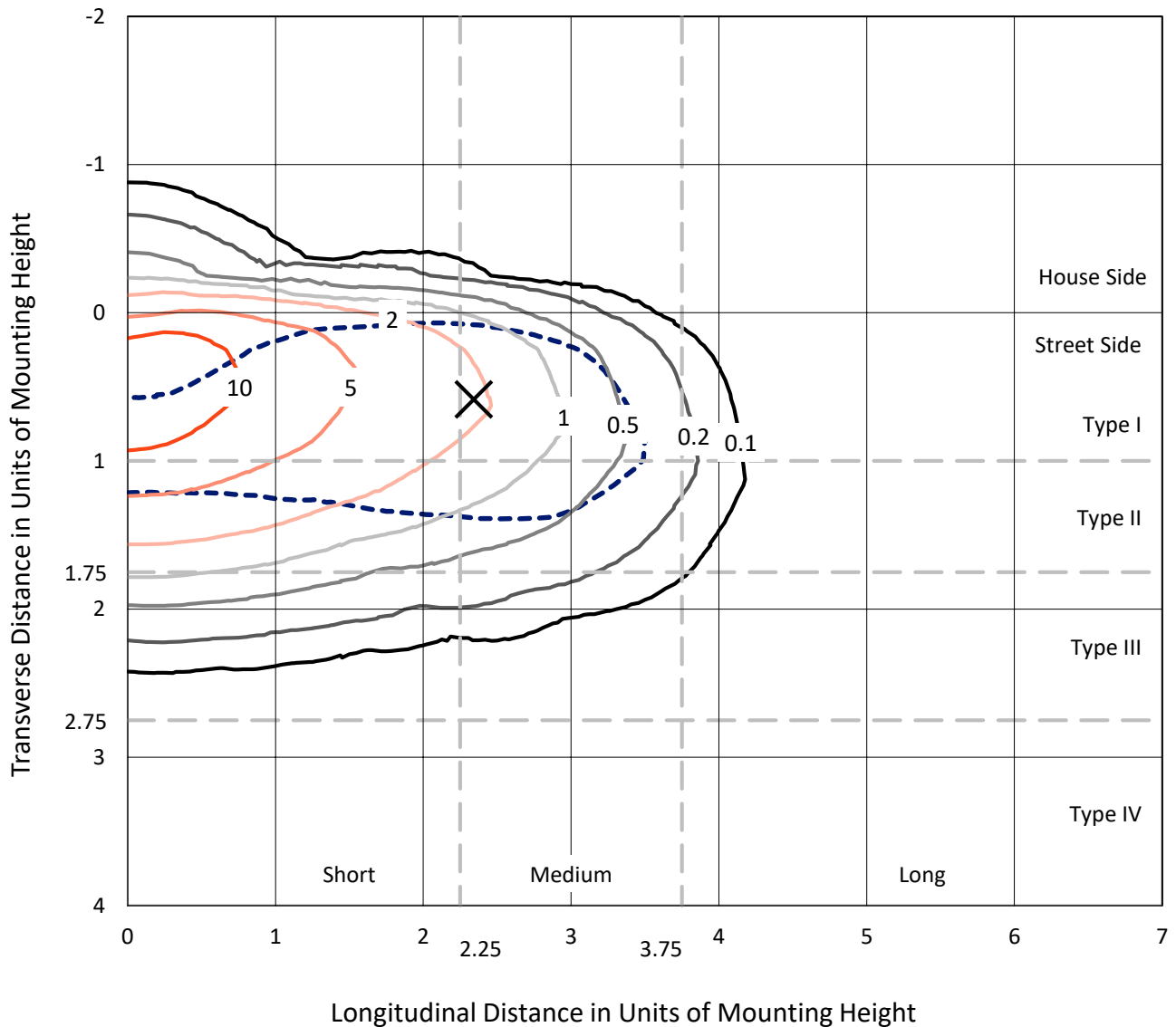
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

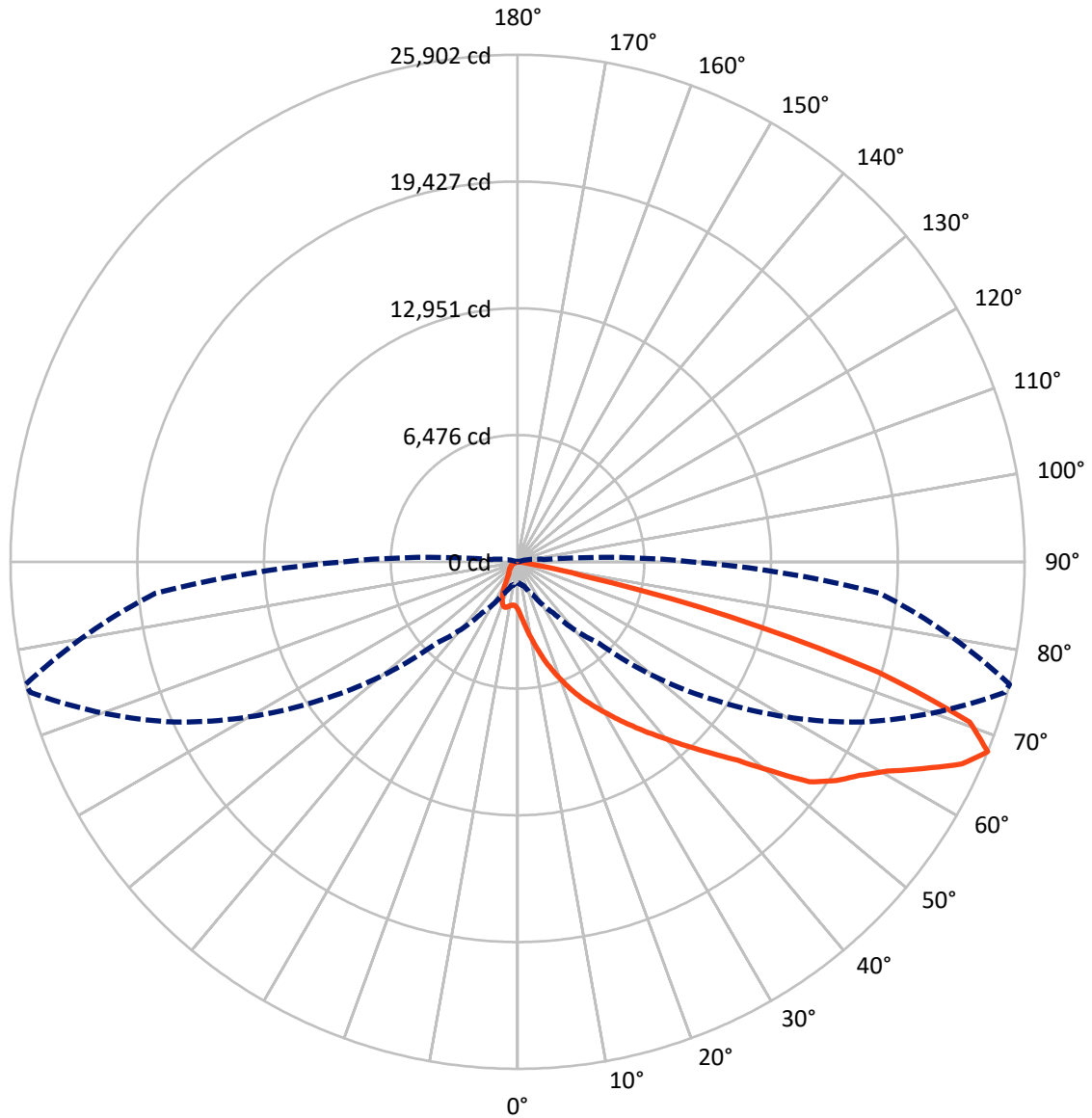
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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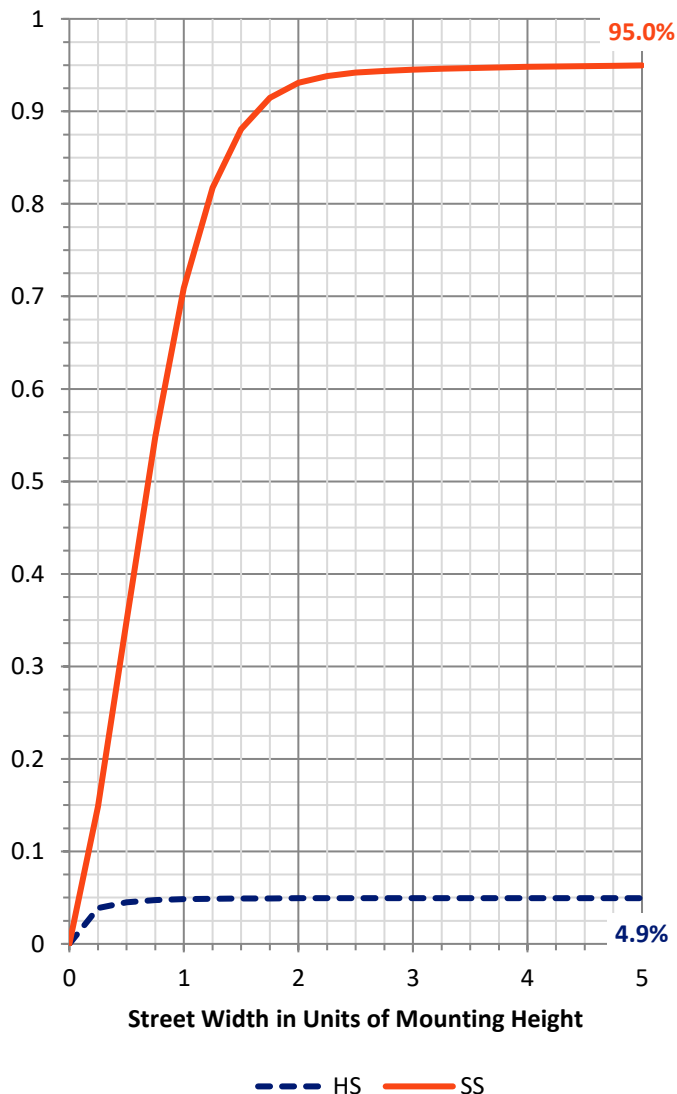
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1415.6	0.0	1415.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27091.4	0.0	27091.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	28507.0	0.0	28507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	1.1
10°-20°	1192.0	4.2
20°-30°	2425.4	8.5
30°-40°	4209.7	14.8
40°-50°	5947.7	20.9
50°-60°	6745.0	23.7
60°-70°	5594.3	19.6
70°-80°	2026.4	7.1
80°-90°	65.7	0.2
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°	28507.0	100.0
0°-180°	28507.0	100.0

Coefficient of Utilization

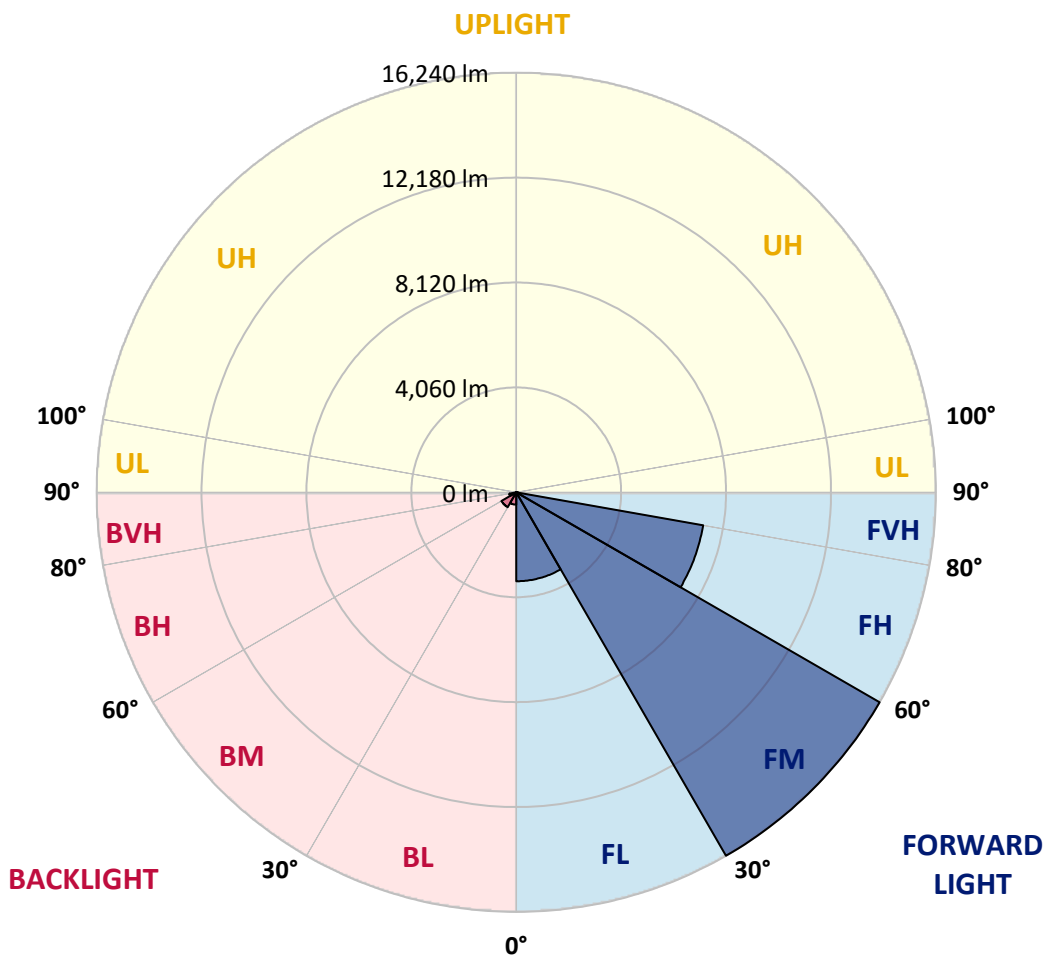


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.7	12.1			
FM (30°-60°)	16239.9	57.0			
FH (60°-80°)	7347.2	25.8			G3/7500
FVH (80°-90°)	63.6	0.2			G1/100
BL (0°-30°)	477.4	1.7	B1/500		
BM (30°-60°)	662.5	2.3	B1/1000		
BH (60°-80°)	273.6	1.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2
2.5°	3609.8	3528.7	3547.4	3494.9	3400.0	3205.1	3039.0	2881.6	2698.0	2691.8	2540.6
5°	4867.7	4799.0	4790.2	4684.1	4511.7	4180.7	3858.4	3491.2	3081.5	3051.5	2730.5
7.5°	6009.3	5954.4	5934.4	5808.2	5487.2	5164.9	4745.3	4205.7	3564.9	3509.9	2986.6
10°	6886.2	6859.9	6864.9	6775.0	6500.2	6200.4	5649.6	4961.3	4113.2	4028.3	3293.8
12.5°	7550.7	7556.9	7601.9	7546.9	7393.3	7171.0	6582.7	5767.0	4720.3	4604.1	3644.8
15°	8039.1	8070.3	8152.7	8221.4	8210.2	8017.8	7478.2	6585.2	5364.8	5236.1	4035.8
17.5°	8355.1	8390.1	8510.0	8662.4	8802.3	8757.3	8342.6	7374.6	6016.8	5868.2	4454.2
20°	8632.4	8673.6	8802.3	9003.4	9264.4	9320.6	9048.3	8140.3	6667.6	6486.5	4886.4
22.5°	9233.2	9232.0	9310.6	9428.1	9676.6	9821.5	9649.1	8851.0	7310.9	7122.3	5327.3
25°	10319.9	10278.7	10251.2	10158.8	10213.7	10303.7	10207.5	9515.5	7957.9	7766.8	5774.5
27.5°	11611.4	11636.4	11414.1	11165.5	10973.2	10880.7	10723.4	10131.3	8579.9	8370.1	6211.7
30°	12974.2	12981.7	12719.4	12402.1	11978.7	11627.7	11355.4	10719.6	9219.5	8990.9	6636.4
32.5°	14203.3	14154.6	13894.8	13462.6	12928.0	12533.3	11967.4	11376.6	9896.5	9675.4	7108.5
35°	15177.6	15120.1	14804.1	14410.6	13856.0	13458.8	12778.1	12032.4	10608.4	10392.3	7581.9
37.5°	15889.5	15822.1	15497.3	15092.6	14614.2	14383.2	13718.6	12745.6	11385.4	11153.0	8080.3
40°	16136.9	16078.2	15874.6	15578.5	15193.8	15141.3	14716.7	13566.3	12231.0	11983.7	8644.9
42.5°	15989.5	15932.0	15859.6	15759.6	15599.8	15649.7	15658.5	14501.8	13170.3	12926.7	9268.2
45°	15404.9	15353.7	15428.6	15574.8	15773.4	16020.7	16517.8	15507.3	14219.5	13959.7	9988.9
47.5°	14544.3	14506.8	14714.2	15078.9	15659.7	16341.7	17303.5	16564.1	15397.4	15156.3	10888.2
50°	13320.2	13313.9	13728.6	14394.4	15287.5	16496.6	18115.4	17765.7	17033.7	16780.1	12138.6
52.5°	11414.1	11426.6	12242.2	13307.7	14634.2	16391.7	18637.5	19309.5	18937.3	18673.7	13221.5
55°	9599.2	9674.1	10252.5	11788.8	13632.5	16002.0	18817.4	20030.2	19987.8	19738.0	13823.6
57.5°	7821.7	7957.9	8515.0	9950.2	12169.8	15103.9	18718.7	20342.5	20769.7	20578.6	14618.0
60°	5895.7	5958.1	6600.1	7941.7	10292.4	13465.1	18003.0	20512.4	21838.9	21706.5	15770.9
62.5°	3751.0	3907.1	4476.7	5770.8	8014.1	11189.3	16796.4	20509.9	23176.7	23249.1	17258.5
65°	1976.0	2158.4	2460.7	3576.1	5507.2	8647.4	14981.5	20317.5	24818.0	24919.1	18421.4
67.5°	1065.5	1117.9	1277.8	1856.1	3193.9	5858.2	12314.7	19368.2	25768.5	25902.2	18583.8
70°	779.4	808.2	868.1	1026.7	1607.6	3402.5	8985.9	17216.1	24543.2	24493.2	16511.6
72.5°	598.3	643.3	688.2	751.9	924.3	1816.2	5594.6	13481.3	19583.1	19253.3	12342.2
75°	472.2	479.6	543.3	600.8	693.2	1034.2	2484.4	7851.7	11952.4	11171.8	6400.3
77.5°	377.2	382.2	419.7	469.7	557.1	679.5	769.4	3089.0	3815.9	3405.0	1389.0
80°	223.6	236.1	312.3	362.2	462.2	428.4	281.0	670.8	595.8	539.6	233.6
82.5°	124.9	134.9	176.1	286.0	322.3	204.8	139.9	181.1	139.9	136.1	66.2
85°	0.0	6.2	113.7	177.4	131.2	45.0	58.7	60.0	41.2	38.7	26.2
87.5°	0.0	0.0	35.0	33.7	5.0	7.5	13.7	20.0	16.2	16.2	13.7
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°	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2	2418.2
2.5°	2465.7	2398.2	2270.8	2145.9	2041.0	1954.8	1877.4	1846.1	1821.2	1817.4	1797.4
5°	2575.6	2439.5	2195.9	1996.0	1862.4	1767.4	1686.3	1636.3	1597.6	1582.6	1568.8
7.5°	2741.7	2535.6	2185.9	1956.1	1796.2	1636.3	1486.4	1324.0	1222.8	1184.1	1161.6
10°	2944.1	2663.0	2223.4	1944.8	1665.0	1327.8	1079.2	873.1	789.4	761.9	754.4
12.5°	3180.2	2821.7	2288.3	1874.9	1385.2	943.1	744.5	674.5	655.8	647.0	647.0
15°	3451.2	2995.3	2334.5	1672.5	1024.2	713.2	644.5	612.0	592.1	580.8	582.1
17.5°	3728.5	3165.2	2312.0	1379.0	755.7	634.5	583.3	548.3	520.9	509.6	507.1
20°	4008.3	3322.6	2187.1	1026.7	639.5	575.8	518.4	479.6	452.2	440.9	438.4
22.5°	4298.1	3456.2	1967.3	753.2	574.6	510.9	454.7	415.9	389.7	379.7	374.7
25°	4580.4	3564.9	1660.0	609.6	513.4	449.7	396.0	359.7	336.0	326.0	324.8
27.5°	4843.9	3633.6	1304.0	538.4	459.7	394.7	346.0	313.5	293.5	286.0	284.8
30°	5081.3	3639.8	964.3	485.9	412.2	347.2	302.3	273.5	256.1	248.6	246.1
32.5°	5321.1	3587.4	702.0	438.4	368.5	306.0	262.3	239.8	227.3	221.1	221.1
35°	5547.2	3466.2	547.1	397.2	326.0	266.1	231.1	214.8	207.3	201.1	201.1
37.5°	5768.3	3292.6	464.7	361.0	286.0	232.3	203.6	193.6	187.4	181.1	181.1
40°	5993.1	3074.0	422.2	327.3	253.6	206.1	181.1	172.4	166.1	161.1	159.9
42.5°	6269.1	2821.7	394.7	296.0	224.8	182.4	159.9	149.9	144.9	139.9	137.4
45°	6588.9	2604.3	372.2	264.8	201.1	162.4	138.6	128.7	121.2	114.9	113.7
47.5°	7049.8	2446.9	342.2	231.1	178.6	141.1	119.9	108.7	97.4	91.2	89.9
50°	7638.1	2317.0	303.5	201.1	156.1	119.9	99.9	86.2	76.2	69.9	69.9
52.5°	7930.4	2147.2	268.6	174.9	131.2	101.2	81.2	65.0	60.0	53.7	53.7
55°	8047.8	2017.3	233.6	148.6	108.7	83.7	63.7	50.0	46.2	42.5	41.2
57.5°	8377.6	1979.8	203.6	126.2	89.9	66.2	48.7	37.5	35.0	30.0	30.0
60°	8908.4	1998.5	176.1	107.4	72.4	51.2	36.2	28.7	26.2	21.2	21.2
62.5°	9481.8	1974.8	148.6	92.4	56.2	37.5	25.0	21.2	21.2	12.5	11.2
65°	9591.7	1758.7	127.4	76.2	43.7	27.5	16.2	13.7	18.7	2.5	0.0
67.5°	8902.2	1364.0	109.9	58.7	32.5	21.2	12.5	6.2	16.2	0.0	0.0
70°	7118.5	866.9	88.7	42.5	25.0	17.5	10.0	2.5	12.5	0.0	0.0
72.5°	5033.8	503.4	69.9	30.0	21.2	13.7	7.5	0.0	7.5	0.0	0.0
75°	2545.6	268.6	43.7	22.5	16.2	10.0	5.0	0.0	1.2	0.0	0.0
77.5°	550.8	124.9	27.5	16.2	11.2	6.2	2.5	0.0	0.0	0.0	0.0
80°	119.9	55.0	17.5	10.0	6.2	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	28.7	8.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.7	15.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	5.0	1.2	1.2	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)