

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: P190925

Luminaire Tested: **GAN-AF-07-LED-U-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190925
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-07-LED-U-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 28485.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

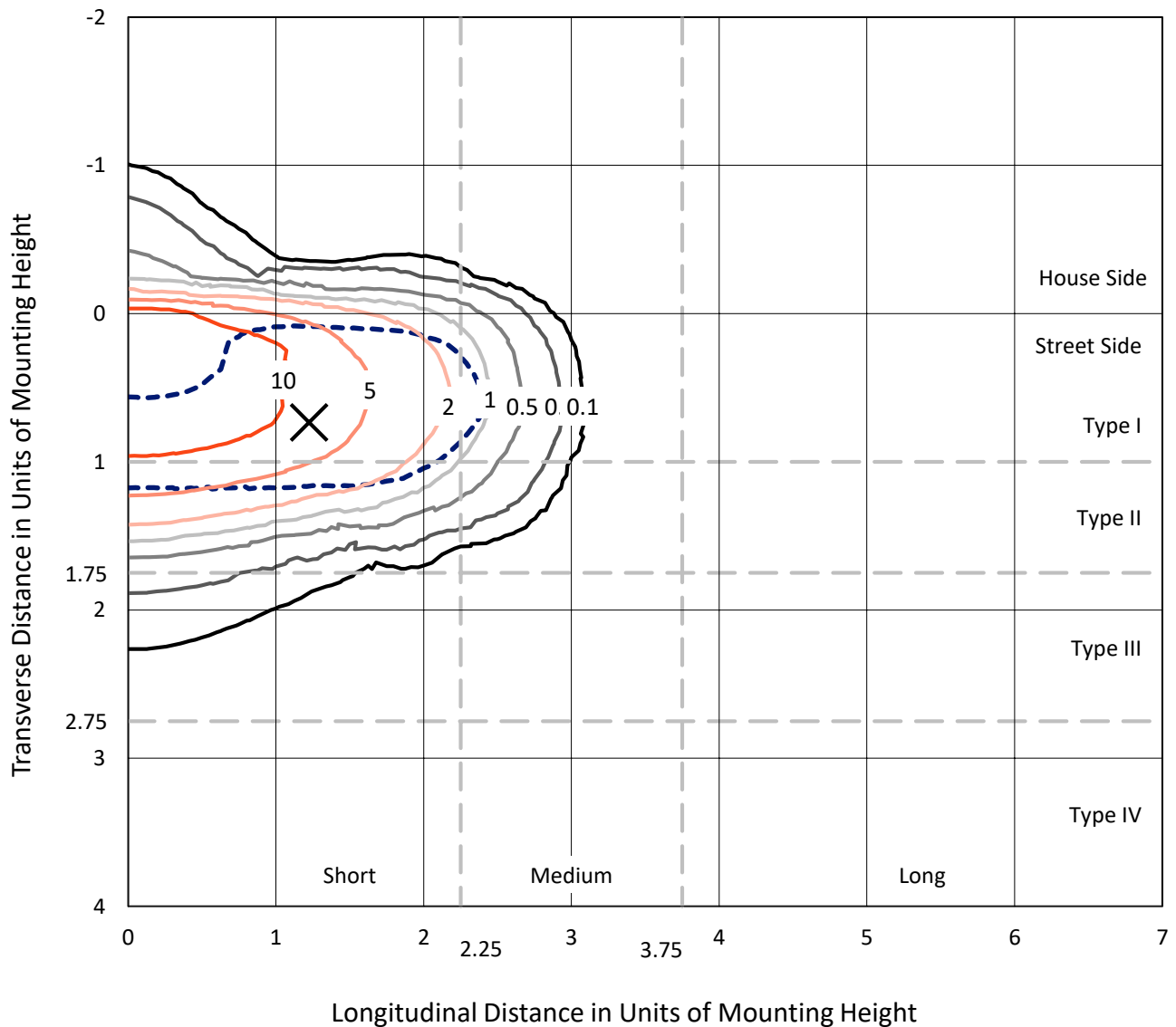
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

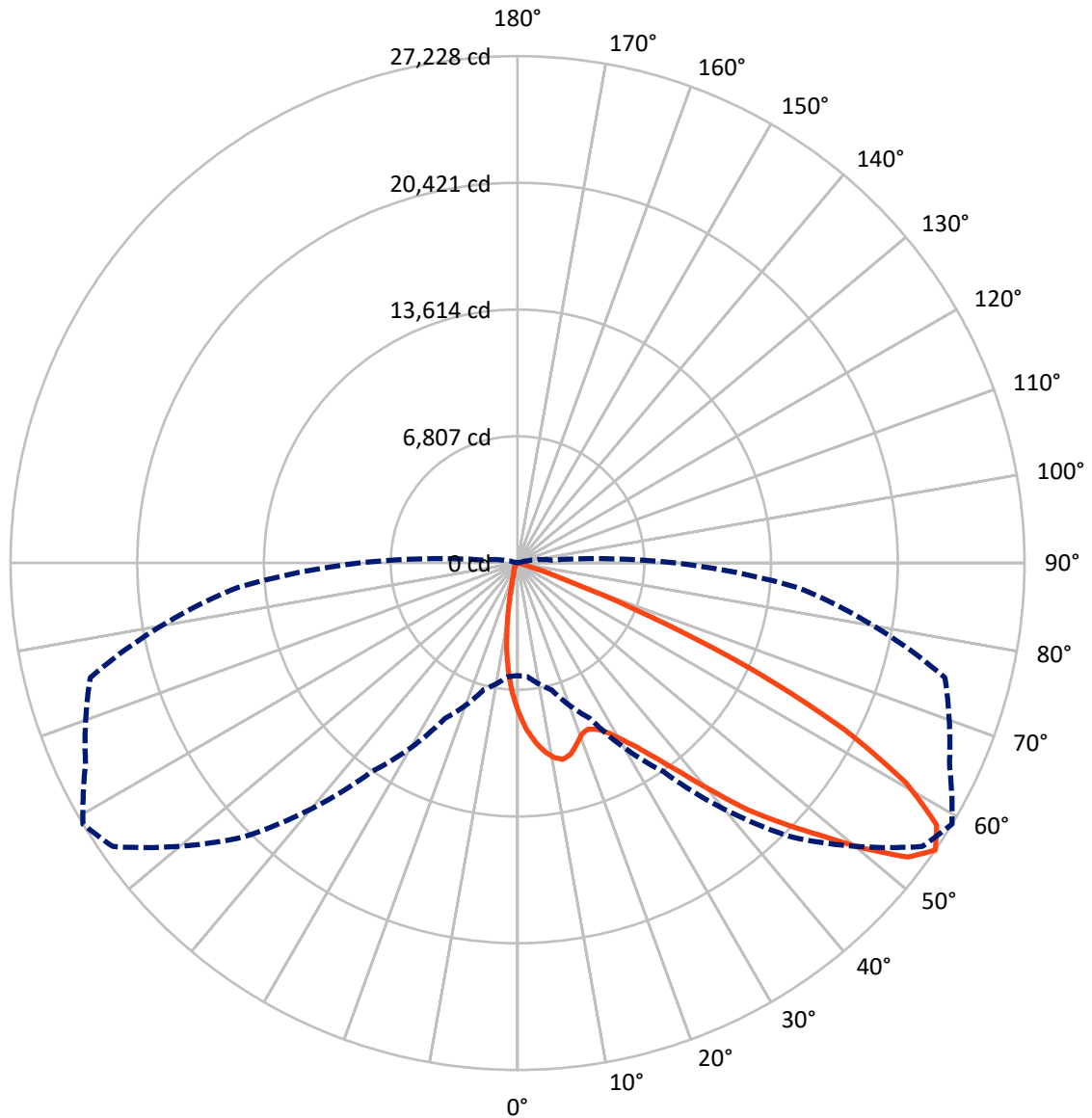
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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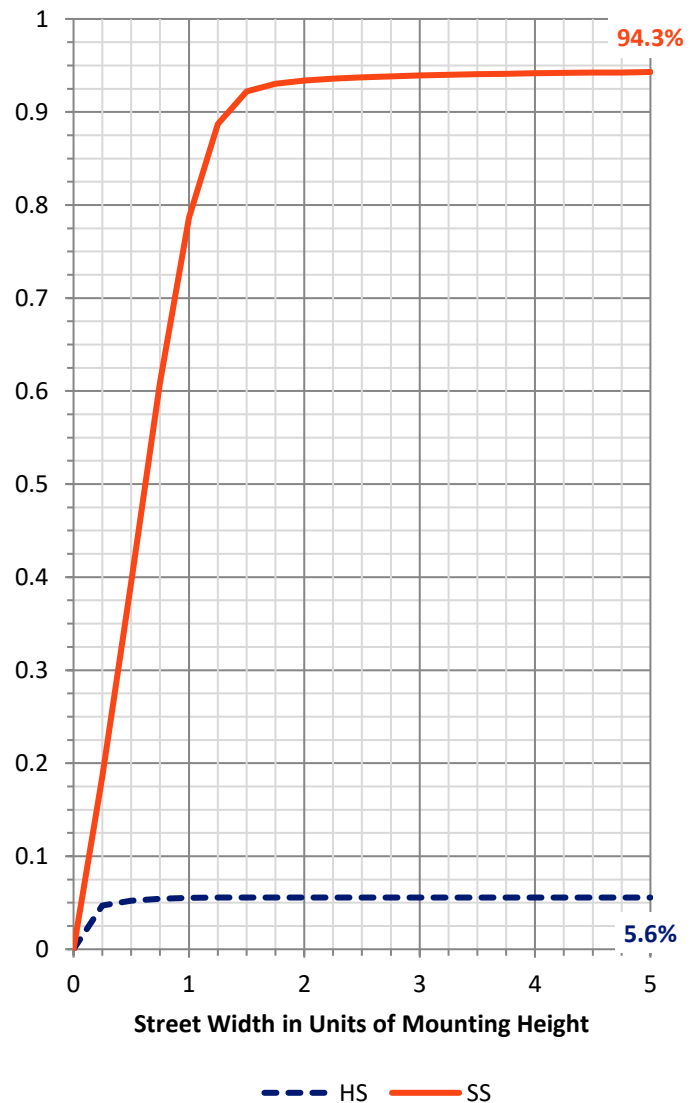
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1591.1	0.0	1591.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26894.0	0.0	26894.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	28485.1	0.0	28485.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.6	2.4
10°-20°	1608.1	5.6
20°-30°	2736.3	9.6
30°-40°	4705.9	16.5
40°-50°	7265.4	25.5
50°-60°	7304.0	25.6
60°-70°	3745.5	13.1
70°-80°	405.9	1.4
80°-90°	42.4	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°	28485.1	100.0
0°-180°	28485.1	100.0

Coefficient of Utilization



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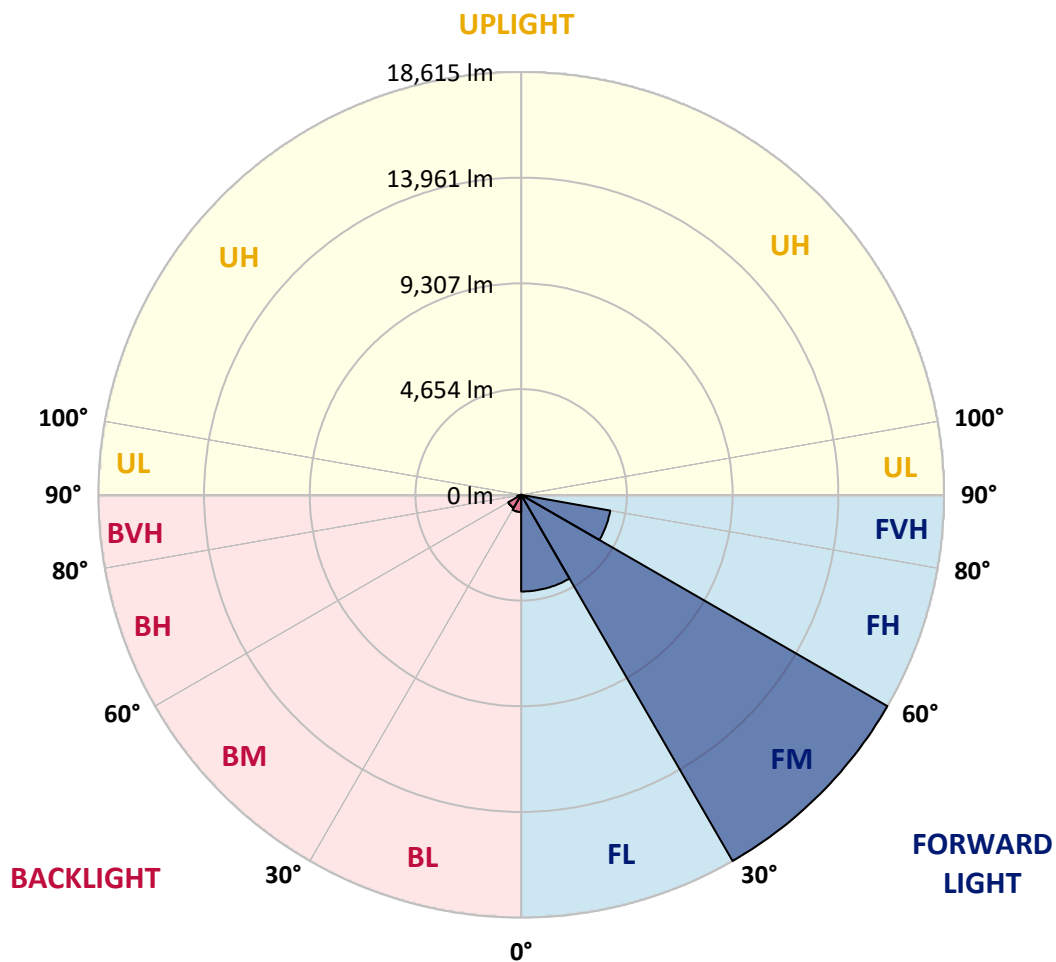
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4256.6	14.9			
FM	(30°-60°)	18614.9	65.3			
FH	(60°-80°)	3981.0	14.0			G2/5000
FVH	(80°-90°)	41.6	0.1			G1/100
BL	(0°-30°)	759.4	2.7	B2/1000		
BM	(30°-60°)	660.3	2.3	B1/1000		
BH	(60°-80°)	170.5	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4
2.5°	9487.7	9386.8	9356.5	9336.4	9243.9	9127.9	8969.9	8896.0	8744.7	8500.9	8201.7
5°	10356.8	10338.2	10271.0	10234.0	10134.9	9970.1	9717.9	9596.9	9356.5	8946.4	8410.1
7.5°	9976.8	10092.8	10185.3	10339.9	10535.0	10528.2	10316.4	10190.3	9921.4	9380.0	8642.1
10°	8509.3	8603.4	8754.7	9106.1	9822.2	10454.3	10703.0	10612.3	10397.1	9778.5	8865.7
12.5°	8221.9	8211.7	8238.6	8341.2	8716.1	9617.1	10637.5	10820.7	10777.0	10143.3	9077.5
15°	8374.8	8363.0	8359.7	8394.9	8485.8	8865.7	10144.9	10671.1	11009.0	10481.2	9257.4
17.5°	8803.5	8753.1	8726.2	8697.5	8670.6	8764.8	9553.2	10252.5	11044.3	10777.0	9407.0
20°	9538.1	9454.0	9354.9	9193.5	9042.2	8995.1	9304.5	9822.2	10918.2	11002.2	9504.4
22.5°	10461.0	10353.4	10181.9	9887.7	9580.1	9401.9	9427.1	9686.0	10729.9	11247.7	9549.9
25°	11498.2	11360.3	11131.6	10723.2	10271.0	9954.9	9790.3	9881.0	10644.2	11535.1	9601.9
27.5°	12609.3	12456.4	12157.2	11600.7	11088.0	10661.0	10324.8	10313.1	10790.5	11911.6	9686.0
30°	13710.4	13686.9	13296.8	12708.5	12029.4	11509.9	11025.8	10963.6	11199.0	12432.8	9852.4
32.5°	15179.6	15003.1	14525.7	13920.5	13137.1	12513.5	11940.3	11795.6	11825.9	13039.7	10109.6
35°	17032.0	16838.8	16166.3	15330.9	14455.1	13718.8	13085.1	12888.4	12814.4	14033.1	10543.3
37.5°	18229.0	18225.6	17803.6	16953.1	16013.4	15201.5	14512.2	14281.9	14132.3	15233.4	11215.7
40°	18260.9	18339.9	18395.3	18386.9	17717.9	16969.8	16358.0	16073.8	15725.9	16837.1	12084.8
42.5°	17280.8	17484.3	17973.5	18803.9	19200.6	18903.0	18386.9	18107.9	17590.2	18553.4	13143.9
45°	15956.2	16097.5	16953.1	18482.8	20004.1	20819.4	20426.1	19926.8	19244.3	20343.6	14093.6
47.5°	15362.8	15388.0	15941.1	17620.4	20064.6	22389.4	22628.2	21816.3	20747.1	21786.0	14836.7
50°	13589.3	13634.7	14397.9	16126.0	19355.3	23130.8	24840.4	24070.4	22386.1	22897.1	15107.3
52.5°	10242.4	10306.3	11274.6	13670.0	17405.2	22814.8	26423.9	26237.4	24181.4	23440.1	15122.4
55°	6043.3	6127.3	7051.9	9201.9	13690.2	20804.3	26541.6	27227.5	25598.5	23761.2	15098.9
57.5°	2822.4	2881.2	3410.8	4740.5	8514.3	16442.0	24769.7	26548.3	26380.2	23930.9	15265.3
60°	1499.4	1516.3	1644.0	2052.6	3847.8	10425.7	21312.0	23973.0	25667.5	24166.3	15468.8
62.5°	1146.4	1151.5	1144.8	1193.5	1617.2	4627.8	16109.2	19708.3	22798.0	23989.8	15243.5
65°	993.5	1001.9	954.8	943.1	1037.2	1650.7	9570.0	14048.3	17914.6	21607.8	13708.7
67.5°	890.9	894.3	837.2	788.4	805.2	892.6	3775.6	7690.6	11857.8	15838.6	9936.5
70°	820.3	816.9	754.7	677.5	655.6	610.2	1200.2	2819.0	5666.7	8031.9	4621.1
72.5°	726.2	727.8	697.7	596.8	544.6	427.0	556.4	822.0	1691.1	2188.7	1082.6
75°	643.8	635.5	598.4	534.6	448.9	280.7	275.7	366.4	521.1	517.7	233.6
77.5°	465.6	457.3	469.0	438.7	344.6	181.6	137.9	176.5	211.9	205.1	65.6
80°	341.3	336.2	302.6	364.8	304.2	124.4	85.7	94.1	109.3	92.5	20.2
82.5°	233.6	232.0	213.5	201.7	173.2	75.6	53.8	58.8	70.6	52.1	10.1
85°	37.0	42.0	154.7	122.8	102.5	33.7	37.0	40.3	47.1	28.5	3.4
87.5°	0.0	0.0	72.3	63.8	20.2	13.4	21.9	23.5	23.5	15.1	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°	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4	8018.4
2.5°	8048.7	7880.6	7569.6	7248.5	6951.1	6596.3	6352.5	6169.3	5957.6	5900.4	6024.8
5°	8104.2	7786.5	7117.4	6389.6	5705.4	4947.2	4367.3	3908.4	3493.2	3351.9	3479.7
7.5°	8191.6	7719.2	6628.2	5429.7	4239.5	3056.1	2245.9	1712.9	1373.4	1272.6	1326.4
10°	8279.0	7621.7	6061.7	4293.3	2666.1	1487.7	968.2	773.2	701.0	685.9	694.3
12.5°	8351.3	7490.7	5370.8	3052.7	1425.5	796.8	633.7	601.8	591.7	591.7	595.1
15°	8394.9	7292.2	4552.2	1941.6	820.3	601.8	553.0	543.0	543.0	544.6	548.0
17.5°	8389.9	7040.0	3656.2	1175.1	613.6	532.9	504.3	495.9	494.2	497.6	499.3
20°	8327.7	6710.7	2756.9	775.0	534.6	485.8	457.3	442.1	440.4	443.8	447.1
22.5°	8210.1	6303.8	1971.8	596.8	482.4	440.4	405.1	391.7	391.7	395.1	398.4
25°	8067.2	5806.3	1348.1	506.0	435.4	391.7	358.0	346.3	349.6	358.0	359.8
27.5°	7889.0	5246.4	916.2	433.7	378.2	342.9	317.7	309.3	317.7	329.5	332.9
30°	7736.1	4663.1	653.9	374.9	321.1	295.8	280.7	280.7	292.5	314.4	319.4
32.5°	7618.3	4098.4	504.3	331.1	279.1	257.2	248.8	257.2	275.7	297.6	302.6
35°	7603.3	3632.7	427.0	295.8	248.8	226.9	223.6	238.7	257.2	274.0	277.3
37.5°	7719.2	3202.3	384.9	267.3	221.9	201.7	198.4	216.9	235.4	255.5	260.5
40°	7939.4	2864.5	354.7	240.4	200.1	178.2	171.4	184.9	210.1	237.0	243.8
42.5°	8225.2	2585.4	321.1	213.5	178.2	147.9	139.5	154.7	181.6	210.1	218.5
45°	8497.6	2345.0	284.1	183.2	149.7	114.3	111.0	131.1	144.5	173.2	179.8
47.5°	8647.1	2133.2	252.2	149.7	116.0	92.5	92.5	97.5	111.0	144.5	151.3
50°	8596.7	1963.5	218.5	111.0	80.7	70.6	70.6	68.9	89.1	116.0	121.0
52.5°	8495.8	1866.0	188.2	85.7	55.4	50.4	45.4	50.4	62.2	74.0	75.6
55°	8480.8	1849.1	158.0	68.9	38.7	33.7	25.2	25.2	25.2	23.5	20.2
57.5°	8598.4	1876.0	132.8	55.4	28.5	21.9	13.4	0.0	0.0	0.0	0.0
60°	8719.4	1904.6	114.3	38.7	20.2	11.8	1.6	0.0	0.0	0.0	0.0
62.5°	8517.7	1840.7	95.9	23.5	15.1	5.0	0.0	0.0	0.0	0.0	0.0
65°	7482.2	1566.8	75.6	16.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5322.1	1048.9	50.4	10.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2429.1	438.7	31.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	519.5	136.2	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	105.9	99.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.7	156.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.2	112.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	16.8	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)