

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: P191727

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191727
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-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 35196 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 374
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

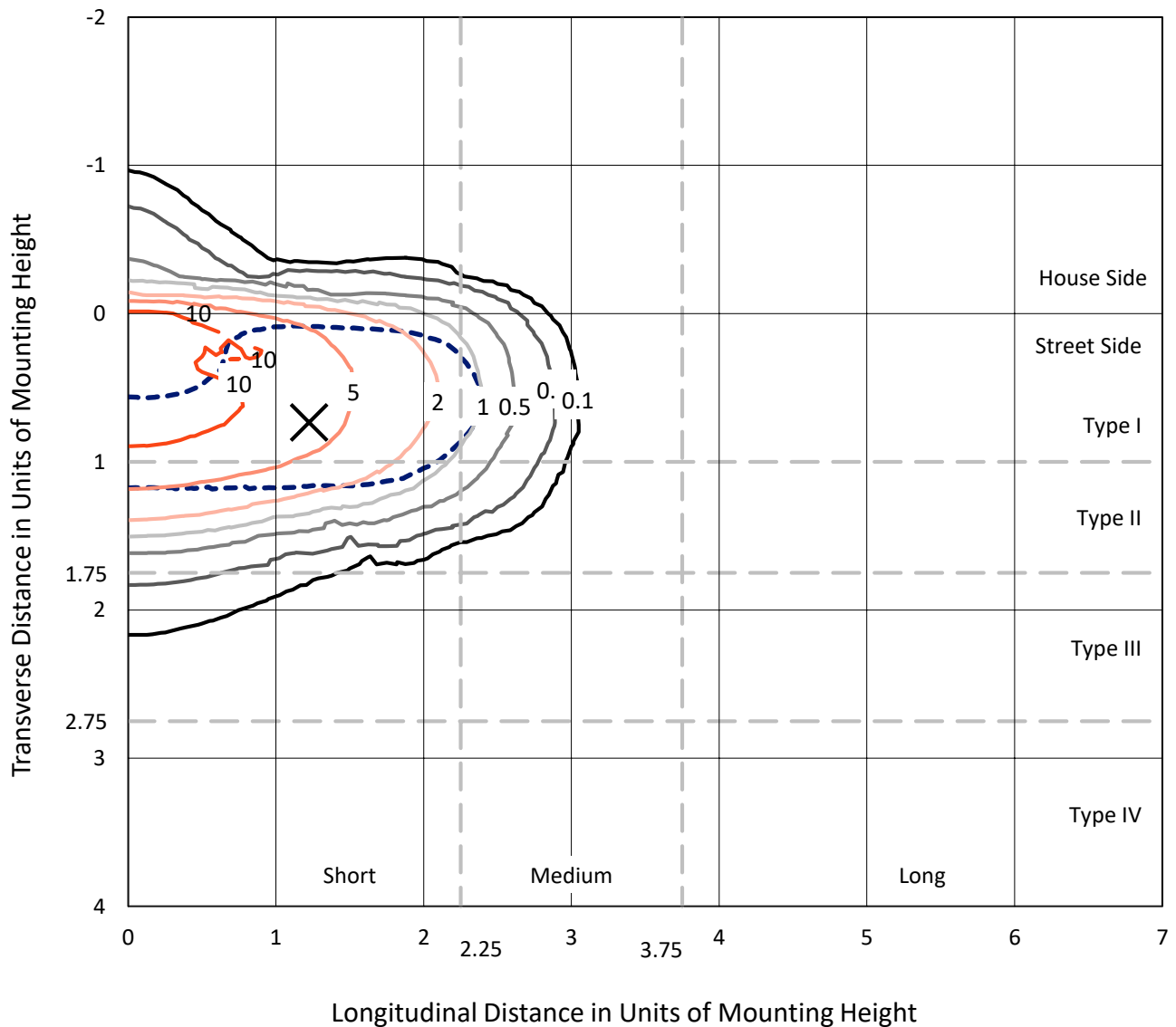


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

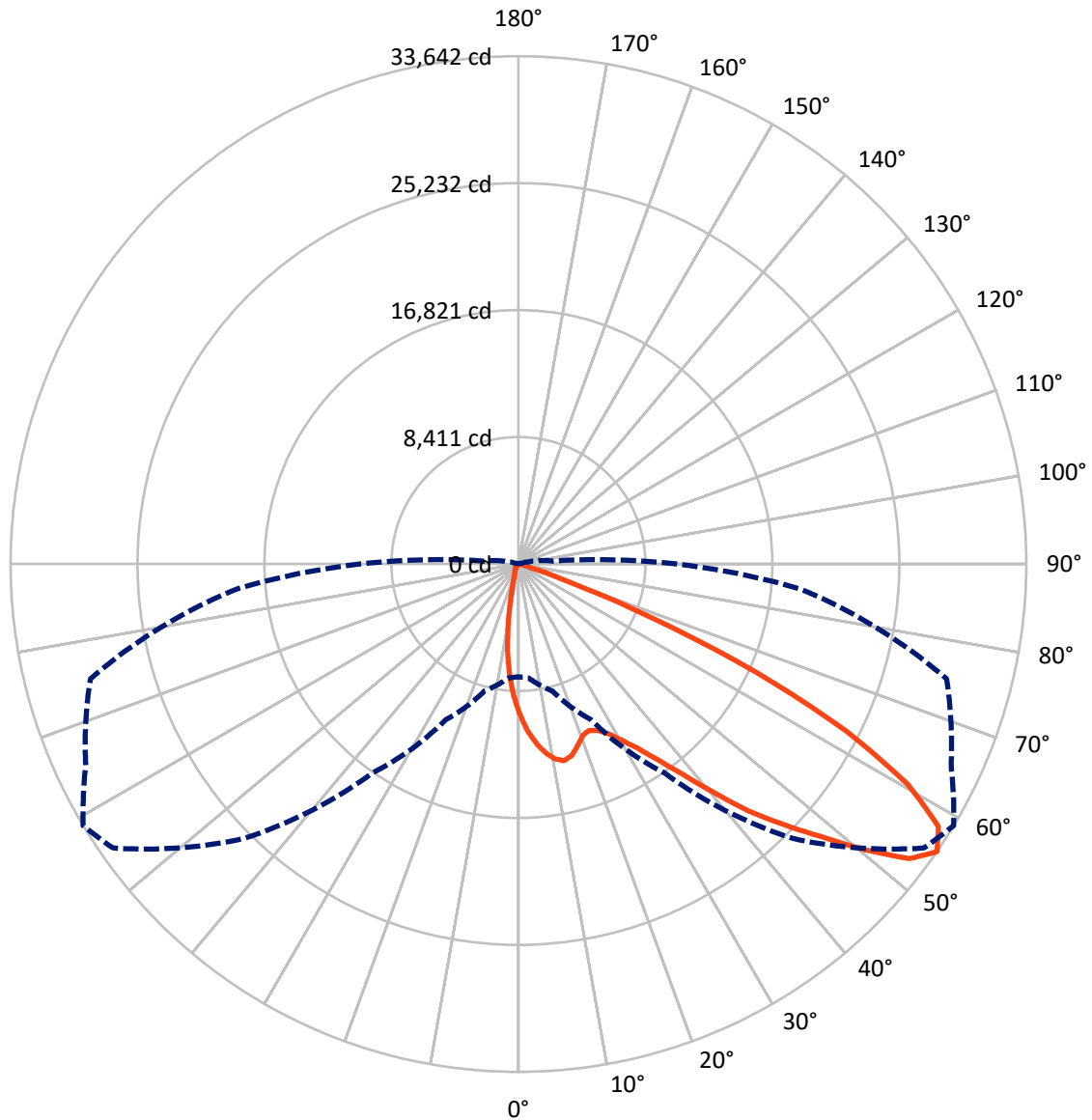


Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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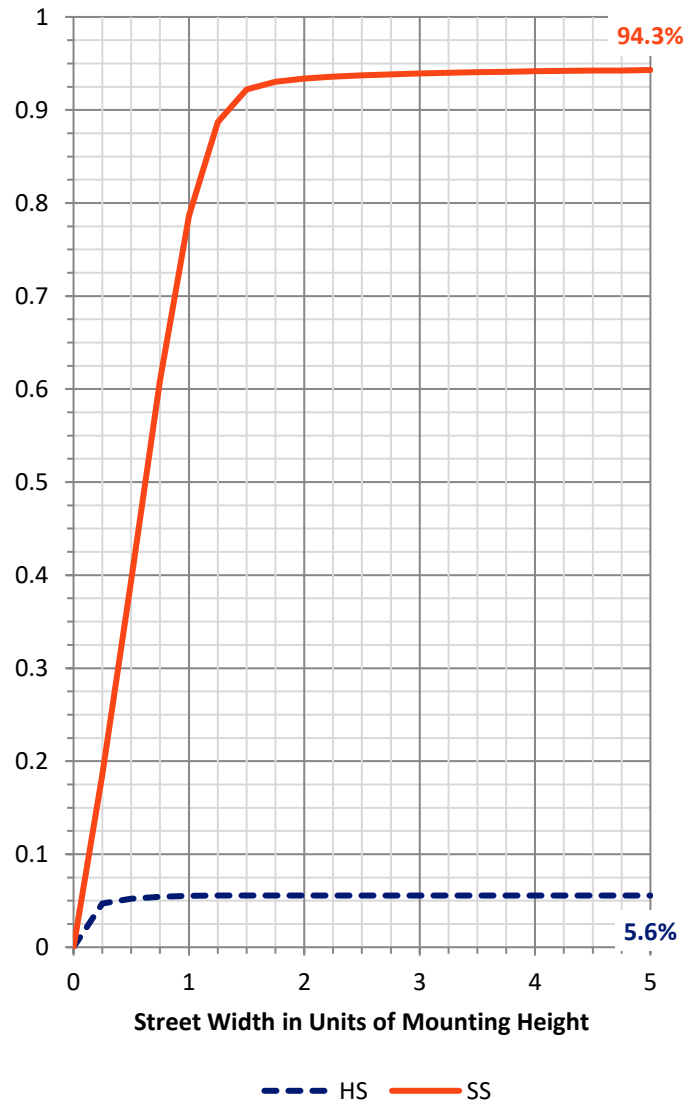
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1965.9	0.0	1965.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	33230.1	0.0	33230.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	35196.0	0.0	35196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.9	2.4
10°-20°	1986.9	5.6
20°-30°	3381.0	9.6
30°-40°	5814.5	16.5
40°-50°	8977.0	25.5
50°-60°	9024.8	25.6
60°-70°	4628.0	13.1
70°-80°	501.5	1.4
80°-90°	52.4	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°	35196.0	100.0
0°-180°	35196.0	100.0

Coefficient of Utilization



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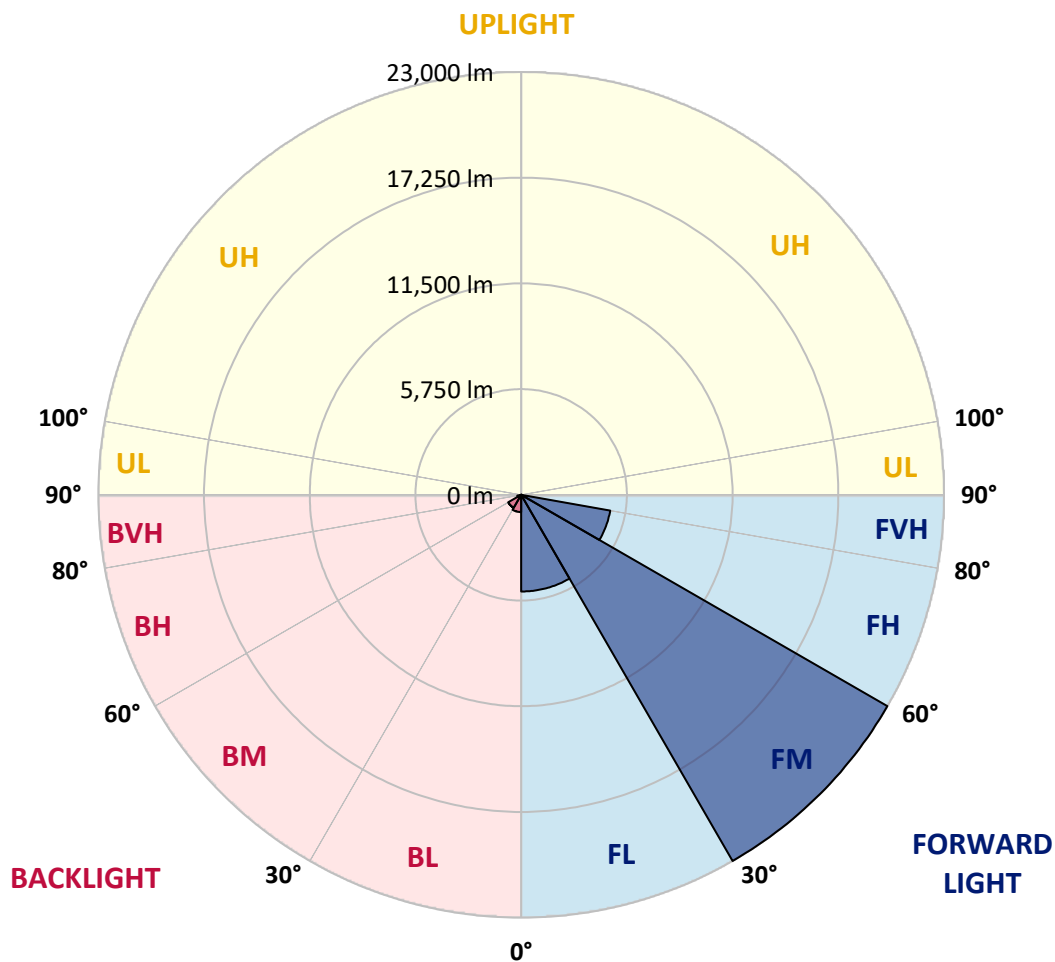
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5259.4	14.9			
FM	(30°-60°)	23000.4	65.3			
FH	(60°-80°)	4918.9	14.0			G2/5000
FVH	(80°-90°)	51.3	0.1			G1/100
BL	(0°-30°)	938.3	2.7	B2/1000		
BM	(30°-60°)	815.9	2.3	B1/1000		
BH	(60°-80°)	210.6	0.6	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5
2.5°	11722.9	11598.3	11560.9	11536.0	11421.7	11278.4	11083.2	10991.8	10804.8	10503.7	10133.9
5°	12796.7	12773.9	12690.8	12645.1	12522.6	12319.0	12007.4	11857.9	11560.9	11054.1	10391.5
7.5°	12327.3	12470.6	12584.9	12776.0	13016.9	13008.6	12746.9	12591.1	12258.8	11590.0	10678.1
10°	10514.0	10630.4	10817.3	11251.4	12136.2	12917.2	13224.6	13112.4	12846.6	12082.2	10954.4
12.5°	10158.9	10146.4	10179.6	10306.3	10769.5	11882.8	13143.6	13370.0	13316.0	12532.9	11216.1
15°	10347.9	10333.3	10329.2	10372.8	10485.0	10954.4	12535.0	13185.1	13602.6	12950.4	11438.3
17.5°	10877.5	10815.2	10782.0	10746.7	10713.4	10829.8	11803.9	12668.0	13646.2	13316.0	11623.2
20°	11785.2	11681.4	11558.8	11359.4	11172.5	11114.3	11496.5	12136.2	13490.5	13594.3	11743.7
22.5°	12925.5	12792.6	12580.7	12217.2	11837.1	11617.0	11648.1	11968.0	13257.8	13897.6	11799.7
25°	14207.0	14036.7	13754.3	13249.5	12690.8	12300.3	12096.8	12208.9	13151.9	14252.7	11864.1
27.5°	15580.0	15391.0	15021.3	14333.7	13700.2	13172.7	12757.3	12742.7	13332.6	14718.0	11968.0
30°	16940.5	16911.4	16429.5	15702.5	14863.4	14221.6	13623.4	13546.5	13837.3	15361.9	12173.6
32.5°	18755.8	18537.7	17947.8	17200.1	16232.2	15461.6	14753.3	14574.7	14612.1	16111.7	12491.4
35°	21044.7	20805.8	19975.0	18942.7	17860.6	16950.8	16167.8	15924.8	15833.4	17339.2	13027.3
37.5°	22523.6	22519.4	21998.1	20947.1	19786.0	18782.8	17931.2	17646.6	17461.8	18822.3	13858.1
40°	22563.0	22660.7	22729.2	22718.8	21892.1	20967.9	20211.8	19860.8	19430.8	20803.8	14931.9
42.5°	21352.1	21603.4	22207.9	23233.9	23724.1	23356.5	22718.8	22374.0	21734.3	22924.4	16240.5
45°	19715.4	19889.9	20947.1	22837.2	24716.9	25724.3	25238.3	24621.4	23778.1	25136.5	17414.0
47.5°	18982.2	19013.4	19696.7	21771.7	24791.7	27664.3	27959.2	26956.0	25635.0	26918.6	18332.1
50°	16790.9	16847.0	17790.0	19925.2	23915.2	28580.3	30692.6	29741.3	27660.1	28291.6	18666.5
52.5°	12655.5	12734.4	13930.8	16890.6	21505.8	28189.8	32649.2	32418.7	29878.4	28962.4	18685.2
55°	7467.0	7570.9	8713.2	11369.8	16915.5	25705.6	32794.6	33642.0	31629.4	29359.2	18656.1
57.5°	3487.4	3560.1	4214.3	5857.3	10520.3	20315.7	30605.4	32802.9	32595.2	29568.9	18861.7
60°	1852.7	1873.5	2031.4	2536.1	4754.4	12881.9	26332.9	29620.9	31714.5	29859.7	19113.0
62.5°	1416.6	1422.8	1414.5	1474.7	1998.1	5718.1	19904.4	24351.4	28169.0	29641.6	18834.7
65°	1227.5	1237.9	1179.8	1165.2	1281.5	2039.7	11824.7	17357.9	22135.2	26698.5	16938.4
67.5°	1100.8	1105.0	1034.4	974.1	994.9	1102.9	4665.1	9502.5	14651.5	19570.0	12277.5
70°	1013.6	1009.4	932.6	837.1	810.1	754.0	1483.0	3483.2	7001.7	9924.2	5709.8
72.5°	897.3	899.4	862.0	737.4	673.0	527.6	687.5	1015.7	2089.5	2704.3	1337.6
75°	795.5	785.1	739.4	660.5	554.6	346.9	340.6	452.8	643.9	639.7	288.7
77.5°	575.3	565.0	579.5	542.1	425.8	224.3	170.3	218.1	261.7	253.4	81.0
80°	421.6	415.4	373.9	450.7	375.9	153.7	105.9	116.3	135.0	114.2	24.9
82.5°	288.7	286.6	263.8	249.2	213.9	93.5	66.5	72.7	87.2	64.4	12.5
85°	45.7	51.9	191.1	151.6	126.7	41.5	45.7	49.8	58.2	35.3	4.2
87.5°	0.0	0.0	89.3	78.9	24.9	16.6	27.0	29.1	29.1	18.7	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°	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5	9907.5
2.5°	9944.9	9737.2	9353.0	8956.3	8588.6	8150.4	7849.2	7622.8	7361.1	7290.5	7444.2
5°	10013.5	9620.9	8794.2	7894.9	7049.5	6112.8	5396.2	4829.2	4316.1	4141.6	4299.5
7.5°	10121.5	9537.8	8189.8	6708.9	5238.3	3776.1	2774.9	2116.5	1697.0	1572.3	1638.8
10°	10229.5	9417.4	7489.9	5304.8	3294.2	1838.2	1196.4	955.4	866.1	847.4	857.8
12.5°	10318.8	9255.4	6636.2	3771.9	1761.3	984.5	783.0	743.6	731.1	731.1	735.3
15°	10372.8	9010.3	5624.7	2399.0	1013.6	743.6	683.4	670.9	670.9	673.0	677.1
17.5°	10366.6	8698.7	4517.6	1451.9	758.1	658.4	623.1	612.7	610.7	614.8	616.9
20°	10289.7	8291.6	3406.4	957.5	660.5	600.3	565.0	546.3	544.2	548.3	552.5
22.5°	10144.3	7789.0	2436.4	737.4	596.1	544.2	500.6	484.0	484.0	488.1	492.3
25°	9967.8	7174.1	1665.8	625.2	538.0	484.0	442.4	427.9	432.0	442.4	444.5
27.5°	9747.6	6482.5	1132.0	535.9	467.3	423.7	392.6	382.2	392.6	407.1	411.3
30°	9558.6	5761.7	808.0	463.2	396.7	365.6	346.9	346.9	361.4	388.4	394.6
32.5°	9413.2	5063.9	623.1	409.2	344.8	317.8	307.4	317.8	340.6	367.6	373.9
35°	9394.5	4488.5	527.6	365.6	307.4	280.4	276.2	294.9	317.8	338.6	342.7
37.5°	9537.8	3956.8	475.6	330.3	274.2	249.2	245.1	267.9	290.8	315.7	321.9
40°	9809.9	3539.3	438.3	297.0	247.2	220.2	211.9	228.5	259.6	292.9	301.2
42.5°	10163.0	3194.5	396.7	263.8	220.2	182.8	172.4	191.1	224.3	259.6	270.0
45°	10499.5	2897.5	351.0	226.4	184.9	141.2	137.1	162.0	178.6	213.9	222.2
47.5°	10684.4	2635.8	311.6	184.9	143.3	114.2	114.2	120.5	137.1	178.6	186.9
50°	10622.1	2426.0	270.0	137.1	99.7	87.2	87.2	85.2	110.1	143.3	149.5
52.5°	10497.4	2305.5	232.6	105.9	68.5	62.3	56.1	62.3	76.9	91.4	93.5
55°	10478.7	2284.8	195.2	85.2	47.8	41.5	31.2	31.2	31.2	29.1	24.9
57.5°	10624.1	2318.0	164.1	68.5	35.3	27.0	16.6	0.0	0.0	0.0	0.0
60°	10773.7	2353.3	141.2	47.8	24.9	14.5	2.1	0.0	0.0	0.0	0.0
62.5°	10524.4	2274.4	118.4	29.1	18.7	6.2	0.0	0.0	0.0	0.0	0.0
65°	9245.0	1935.8	93.5	20.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6576.0	1296.1	62.3	12.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3001.3	542.1	39.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	641.8	168.2	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	130.9	122.5	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.5	193.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.9	139.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	20.8	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)