

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: P324763

Luminaire Tested: **GAN-SA9B-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 38087 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

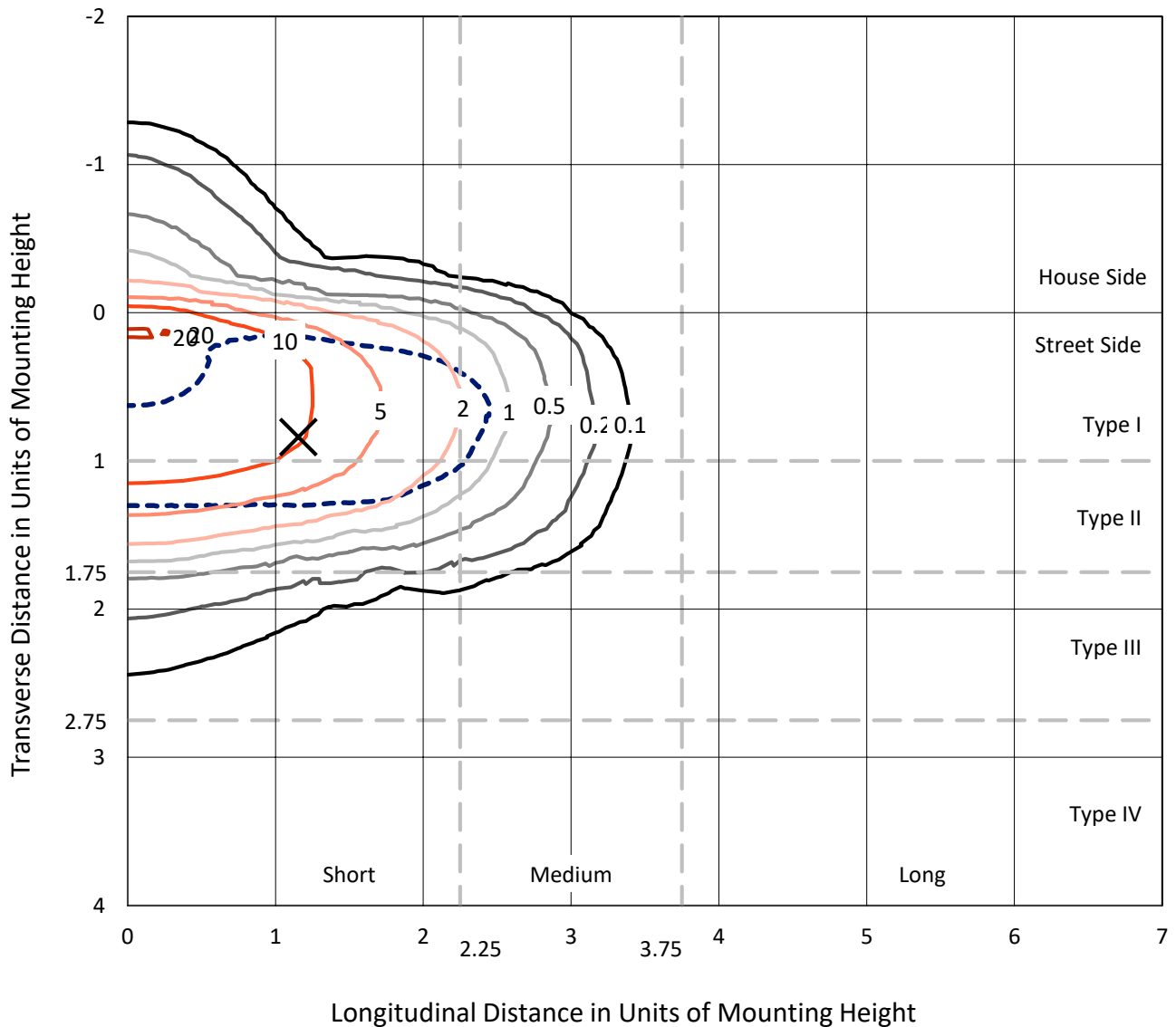
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

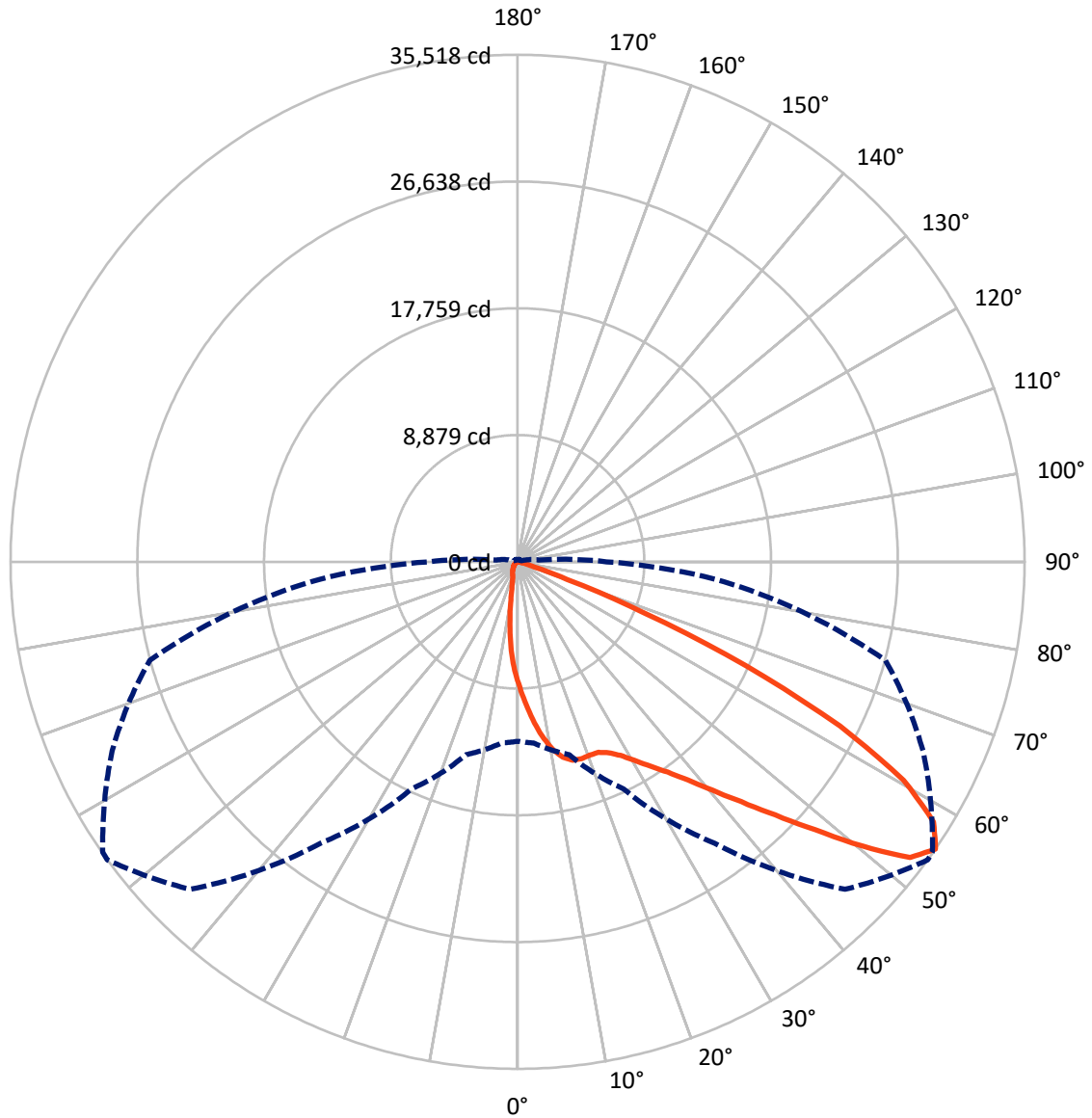
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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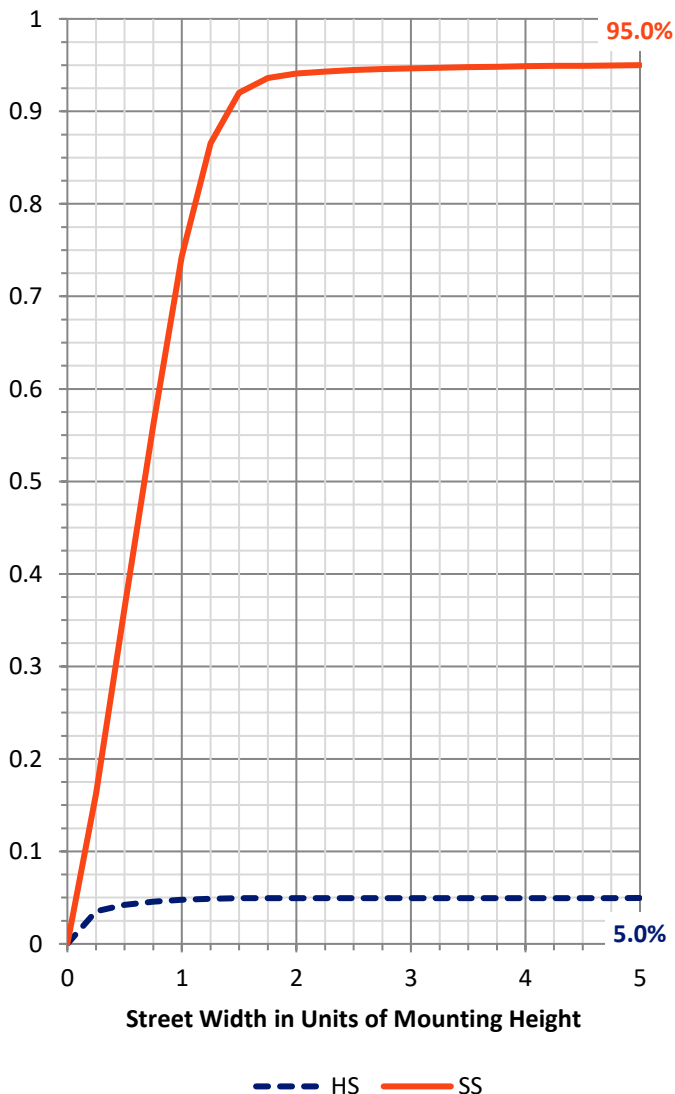
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1900.3	0.0	1900.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	36186.7	0.0	36186.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	38087.0	0.0	38087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	785.5	2.1
10°-20°	2154.3	5.7
20°-30°	3678.1	9.7
30°-40°	5902.7	15.5
40°-50°	9432.6	24.8
50°-60°	10107.2	26.5
60°-70°	5189.4	13.6
70°-80°	786.1	2.1
80°-90°	51.2	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°	38087.0	100.0
0°-180°	38087.0	100.0

**Coefficient of Utilization**

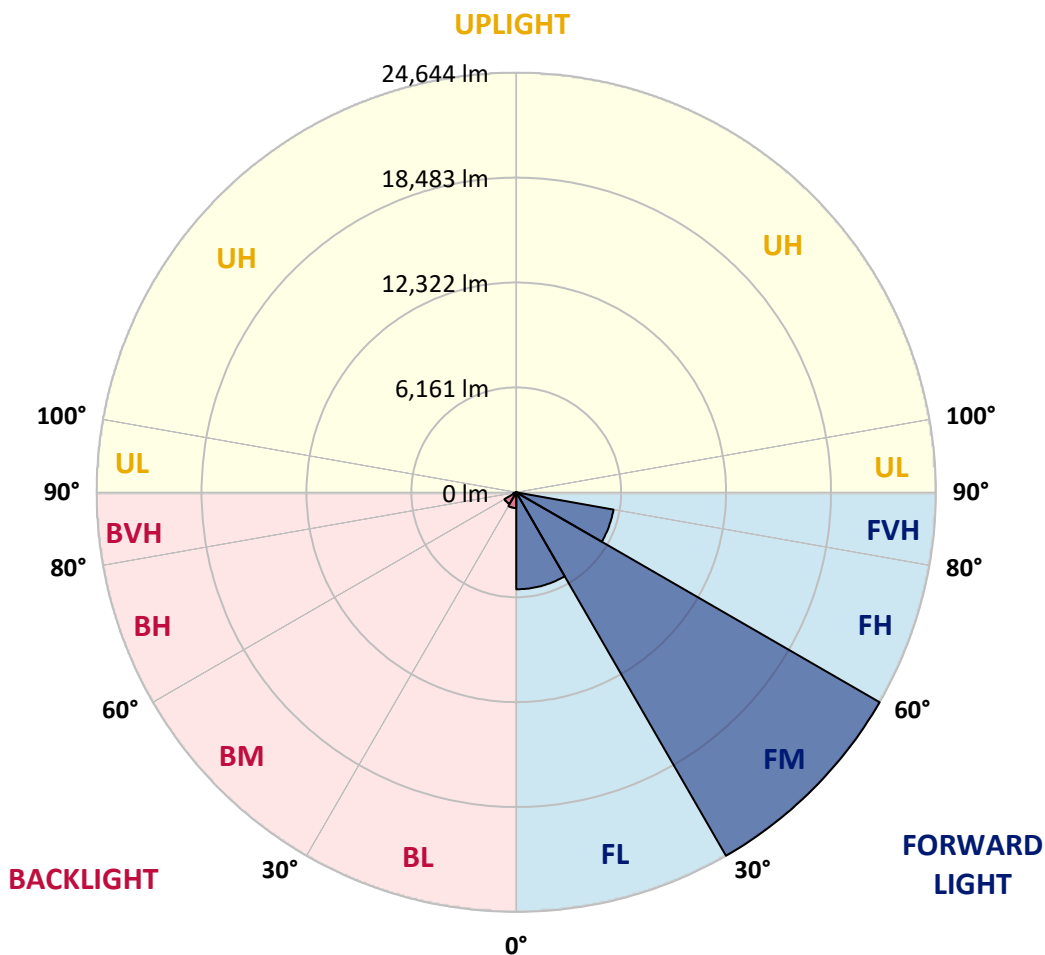


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5693.4	14.9			
FM (30°-60°)	24644.0	64.7			
FH (60°-80°)	5800.3	15.2			G3/7500
FVH (80°-90°)	49.1	0.1			G1/100
BL (0°-30°)	924.5	2.4	B2/1000		
BM (30°-60°)	798.5	2.1	B1/1000		
BH (60°-80°)	175.1	0.5	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: B2-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0
2.5°	10704.4	10544.8	10549.8	10477.4	10212.6	10005.3	9789.9	9738.9	9403.4	9051.4	8712.5
5°	12554.8	12438.0	12410.1	12270.2	11901.8	11512.0	11094.2	10997.2	10340.9	9620.5	8911.6
7.5°	13505.5	13507.1	13484.1	13433.1	13202.9	12824.5	12314.7	12212.7	11319.5	10238.9	9118.8
10°	13229.2	13291.7	13420.0	13589.4	13765.4	13717.7	13334.4	13242.3	12271.9	10893.5	9349.1
12.5°	12584.4	12592.6	12735.7	13013.7	13520.3	14040.1	14046.6	14015.4	13181.5	11577.8	9602.4
15°	12263.7	12294.9	12347.6	12526.8	13007.1	13839.4	14434.8	14479.2	14015.4	12304.8	9872.1
17.5°	12474.2	12518.6	12474.2	12495.6	12773.6	13521.9	14502.2	14615.7	14744.0	13023.6	10127.1
20°	13044.9	13086.1	13007.1	12919.9	12974.2	13429.8	14454.5	14607.5	15314.8	13661.8	10340.9
22.5°	13814.7	13831.2	13711.1	13568.0	13528.5	13742.3	14494.0	14651.9	15772.0	14239.1	10475.8
25°	14661.8	14676.6	14526.9	14362.4	14268.7	14355.9	14818.0	14936.5	16175.0	14790.1	10553.1
27.5°	15584.5	15597.7	15410.2	15207.9	15099.3	15102.6	15352.6	15479.3	16604.3	15418.4	10615.6
30°	16559.9	16553.3	16380.6	16099.4	15961.2	15957.9	16122.4	16250.7	17226.0	16224.4	10701.1
32.5°	17655.3	17642.2	17397.1	17048.4	16892.1	16915.2	17061.6	17135.6	17997.5	17082.9	10854.1
35°	19097.8	19060.0	18689.9	18257.3	17969.5	17961.3	18084.6	18143.8	18981.1	18122.5	11109.0
37.5°	20969.6	20935.1	20433.4	19805.1	19400.5	19249.2	19395.5	19471.2	20384.1	19456.4	11518.6
40°	22815.1	22780.6	22482.8	21907.2	21283.8	20920.3	21035.4	21116.0	22135.8	21074.9	12035.0
42.5°	24088.2	24117.8	24221.4	24269.1	23685.2	22922.0	22974.6	23058.5	23976.3	22805.2	12625.5
45°	24423.7	24487.9	25073.4	26223.1	26441.9	25846.5	25295.5	25341.5	25846.5	24535.6	13216.0
47.5°	23415.4	23533.9	24663.9	26802.1	28654.2	29075.2	28032.4	27971.6	27641.0	25935.3	13635.4
50°	21124.2	21232.8	22696.7	25859.6	29325.2	32157.6	31312.2	31132.9	29215.0	26772.5	13783.5
52.5°	17808.3	17939.9	19129.1	22892.4	28060.4	33532.6	34417.5	34267.9	30369.7	26838.3	13808.1
55°	12576.2	12735.7	13994.0	17545.1	24052.0	32438.8	35517.9	35473.5	31328.6	26663.9	13860.8
57.5°	7067.7	7182.9	8539.8	11247.2	17615.9	28254.5	34368.2	34662.6	31907.6	26361.3	13939.7
60°	3138.3	3169.5	3871.9	5598.9	10312.9	21593.0	31076.9	31573.7	31410.8	25956.7	14073.0
62.5°	1740.2	1713.9	1713.9	2327.4	4482.1	13367.3	25341.5	26162.3	29290.7	25478.0	14079.5
65°	1363.5	1338.9	1268.1	1278.0	1707.3	5932.8	17548.4	19007.4	25264.2	24075.0	13605.8
67.5°	1156.3	1134.9	1064.2	1036.2	1060.9	1957.3	9641.8	11156.7	19170.2	20428.5	11785.0
70°	977.0	962.2	926.0	891.5	829.0	967.1	3689.3	4718.9	11813.0	13589.4	8044.7
72.5°	786.2	779.6	792.8	763.2	687.5	644.8	1261.6	1528.0	5306.1	6064.4	3314.3
75°	677.7	674.4	680.9	651.3	565.8	449.0	641.5	700.7	1496.8	1483.6	671.1
77.5°	440.8	445.7	564.2	551.0	486.9	299.4	332.3	358.6	454.0	340.5	204.0
80°	281.3	278.0	286.2	457.3	437.5	228.6	166.1	174.3	218.8	167.8	98.7
82.5°	171.1	167.8	187.5	213.8	220.4	159.5	102.0	103.6	136.5	108.6	52.6
85°	14.8	19.7	113.5	105.3	75.7	49.3	49.3	52.6	72.4	64.1	29.6
87.5°	0.0	0.0	19.7	29.6	16.4	18.1	18.1	19.7	28.0	28.0	14.8
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°	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0	8530.0
2.5°	8536.5	8365.5	8020.1	7687.8	7406.6	7135.2	6825.9	6520.0	6376.9	6319.3	6260.1
5°	8551.3	8199.4	7487.2	6770.0	6026.6	5357.1	4786.4	4200.8	3908.1	3779.8	3720.5
7.5°	8571.1	8034.9	6883.5	5679.5	4482.1	3574.2	2781.4	2271.5	2051.1	2016.5	1931.0
10°	8574.4	7835.9	6182.8	4475.5	3005.1	2154.7	1658.0	1394.8	1297.8	1281.3	1253.3
12.5°	8580.9	7600.6	5404.8	3314.3	2003.4	1440.8	1199.1	1111.9	1085.6	1083.9	1083.9
15°	8600.7	7353.9	4597.2	2388.3	1439.2	1141.5	1052.7	1018.1	1008.3	1013.2	1011.6
17.5°	8600.7	7062.8	3804.4	1779.7	1162.9	1026.4	977.0	954.0	950.7	955.6	957.3
20°	8538.2	6709.2	3077.4	1384.9	1031.3	952.3	907.9	886.5	878.3	881.6	883.3
22.5°	8388.5	6274.9	2485.3	1146.4	944.1	884.9	837.2	804.3	791.2	792.8	792.8
25°	8154.9	5760.1	1944.2	991.8	873.4	812.5	756.6	718.8	710.6	708.9	712.2
27.5°	7855.6	5191.0	1547.8	873.4	789.5	731.9	676.0	644.8	638.2	639.8	641.5
30°	7561.2	4600.5	1220.4	773.1	695.8	641.5	598.7	583.9	583.9	588.8	590.5
32.5°	7291.4	4033.1	965.5	685.9	611.9	562.5	537.9	536.2	544.4	547.7	549.4
35°	7059.5	3508.4	799.4	618.4	546.1	503.3	495.1	501.7	511.5	518.1	519.8
37.5°	6895.0	3039.6	699.0	562.5	495.1	460.5	458.9	472.1	485.2	500.0	503.3
40°	6825.9	2643.2	630.0	513.2	454.0	427.6	422.7	440.8	465.5	486.9	490.2
42.5°	6768.4	2319.2	570.7	465.5	421.1	383.2	381.6	404.6	434.2	455.6	460.5
45°	6719.0	2059.3	516.5	414.5	378.3	329.0	333.9	363.5	386.5	409.6	414.5
47.5°	6617.1	1845.5	457.3	360.2	312.5	281.3	291.1	317.4	335.5	370.1	375.0
50°	6434.5	1671.1	396.4	294.4	254.9	243.4	258.2	276.3	299.4	329.0	332.3
52.5°	6311.1	1539.5	343.8	246.7	210.5	213.8	228.6	235.2	248.4	259.9	256.6
55°	6240.4	1467.2	301.0	213.8	179.3	189.2	192.4	184.2	177.6	166.1	161.2
57.5°	6232.2	1401.4	268.1	185.9	157.9	162.8	151.3	123.4	100.3	87.2	83.9
60°	6219.0	1320.8	241.8	156.3	139.8	133.2	108.6	67.4	47.7	44.4	44.4
62.5°	6075.9	1195.8	222.0	131.6	118.4	100.3	62.5	31.3	26.3	28.0	28.0
65°	5620.3	1021.4	202.3	106.9	93.8	72.4	31.3	18.1	9.9	11.5	11.5
67.5°	4778.2	814.2	180.9	82.2	70.7	46.1	18.1	8.2	0.0	0.0	0.0
70°	3199.1	505.0	153.0	57.6	46.1	28.0	13.2	1.6	0.0	0.0	0.0
72.5°	1227.0	273.0	123.4	34.5	29.6	19.7	8.2	0.0	0.0	0.0	0.0
75°	276.3	179.3	85.5	24.7	21.4	13.2	3.3	0.0	0.0	0.0	0.0
77.5°	105.3	129.9	49.3	16.4	14.8	8.2	0.0	0.0	0.0	0.0	0.0
80°	51.0	77.3	23.0	9.9	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.3	29.6	9.9	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	14.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.6	1.6	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)