

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: P323539

Luminaire Tested: **GAN-SA5D-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33130 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

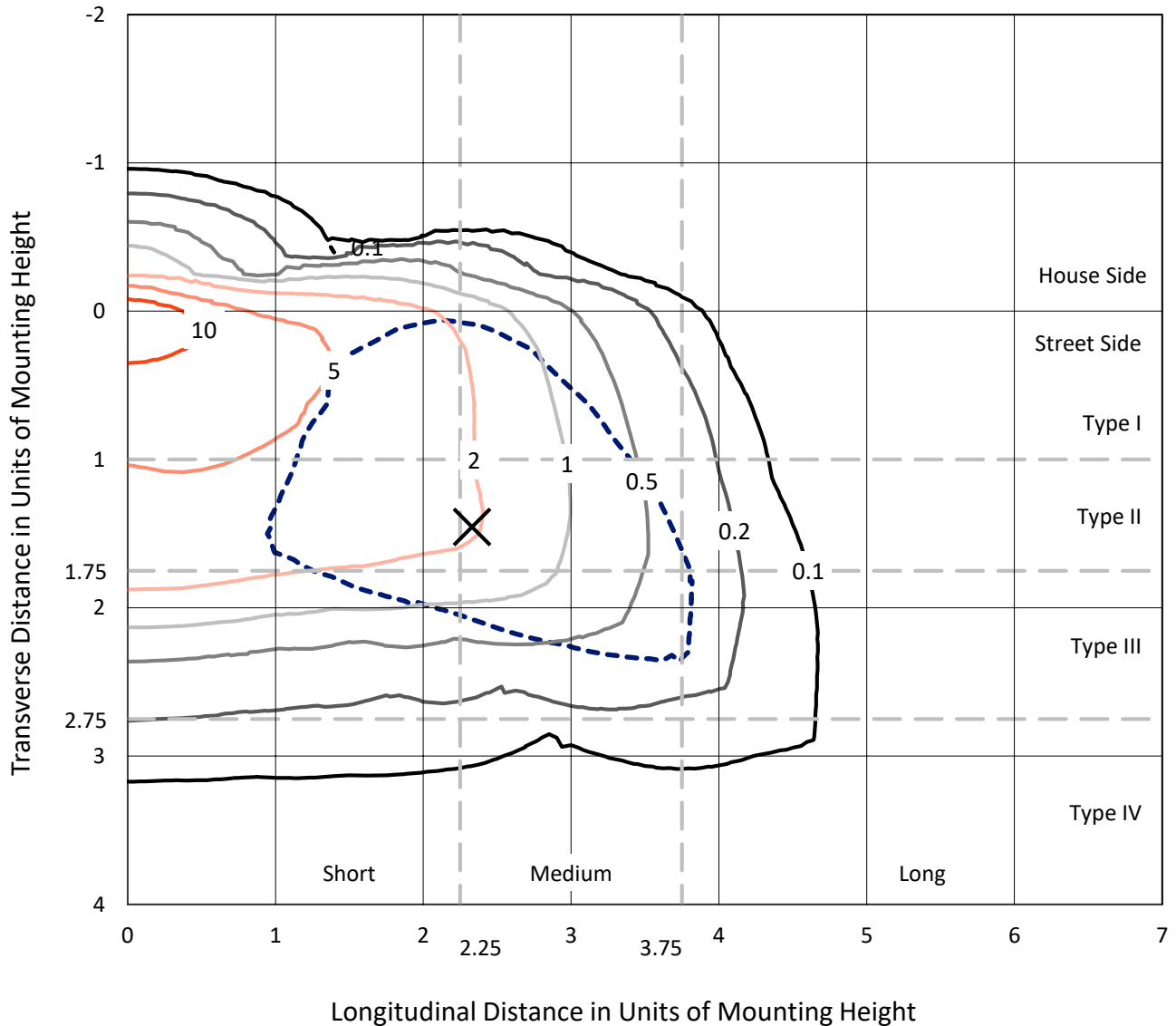
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

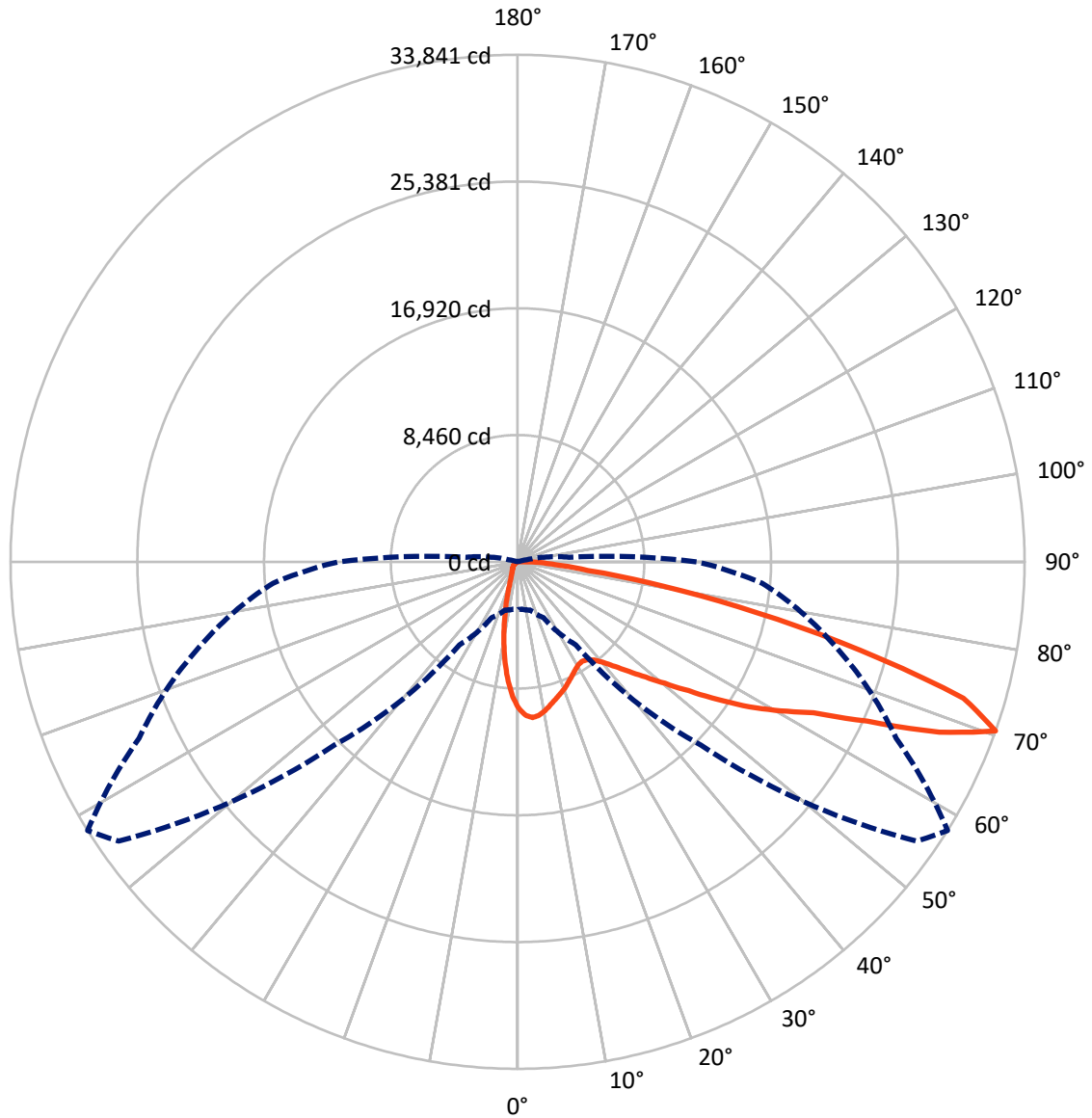
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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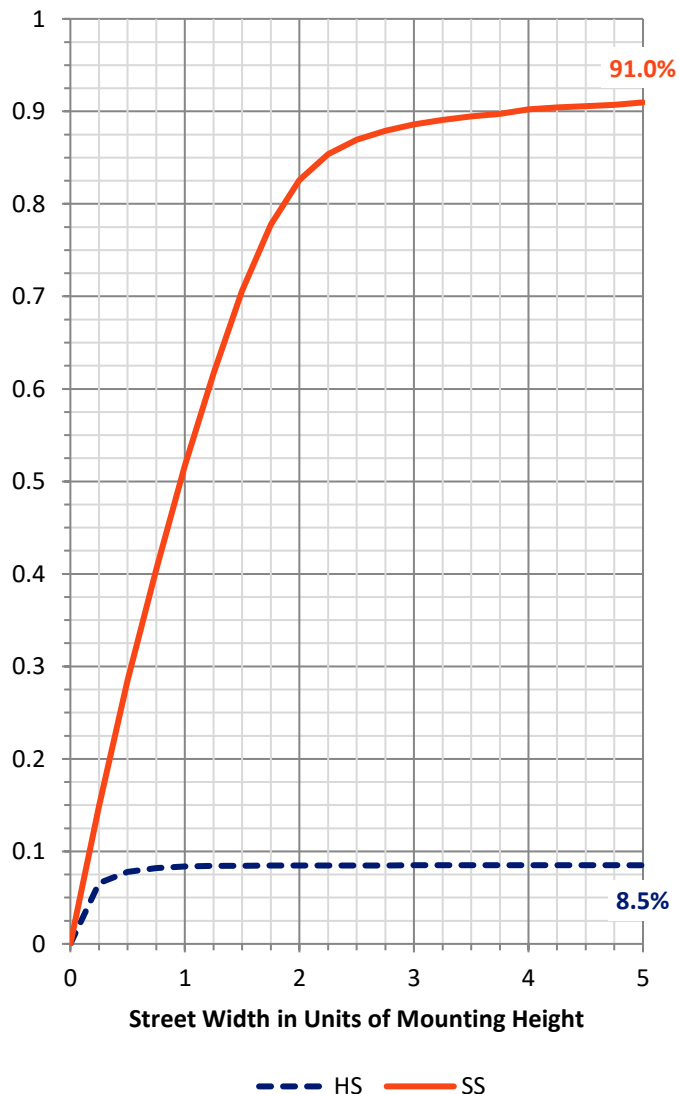
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2835.2	0.0	2835.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	30294.8	0.0	30294.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	33130.0	0.0	33130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.3	2.4
10°-20°	1679.6	5.1
20°-30°	2208.1	6.7
30°-40°	2924.4	8.8
40°-50°	4371.0	13.2
50°-60°	7002.2	21.1
60°-70°	8826.3	26.6
70°-80°	4760.8	14.4
80°-90°	557.3	1.7
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°	33130.0	100.0
0°-180°	33130.0	100.0

Coefficient of Utilization

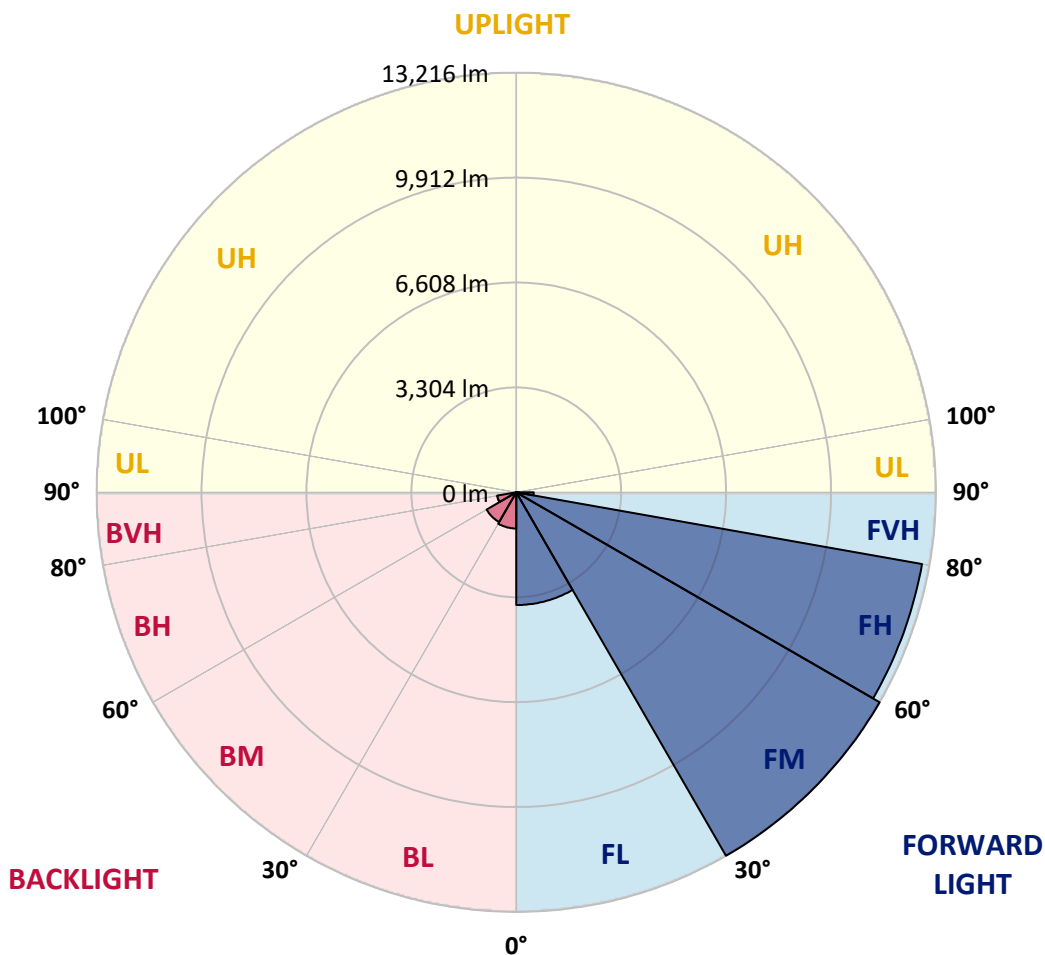


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3548.9	10.7			
FM (30°-60°)	13216.1	39.9			
FH (60°-80°)	12977.4	39.2			G5
FVH (80°-90°)	552.5	1.7			G4/750
BL (0°-30°)	1139.1	3.4	B3/2500		
BM (30°-60°)	1081.6	3.3	B2/2500		
BH (60°-80°)	609.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4
2.5°	10597.8	10571.7	10562.0	10545.5	10482.1	10420.1	10297.5	10263.1	10185.9	10002.7	9808.5
5°	10606.1	10604.7	10633.7	10626.8	10604.7	10575.8	10487.6	10442.2	10311.3	10049.6	9694.1
7.5°	10095.0	10121.2	10185.9	10238.3	10298.9	10377.4	10388.5	10344.4	10236.9	9954.5	9483.4
10°	9409.0	9450.3	9541.2	9644.6	9803.0	9960.0	10100.5	10095.0	10057.8	9779.6	9229.9
12.5°	8721.6	8769.8	8874.5	9027.4	9251.9	9508.2	9758.9	9793.3	9855.3	9622.5	8995.7
15°	8119.6	8160.9	8264.2	8451.6	8729.8	9074.2	9442.0	9505.4	9665.2	9499.9	8800.1
17.5°	7608.5	7634.6	7710.4	7918.4	8240.8	8658.2	9136.2	9260.2	9498.5	9403.5	8630.6
20°	7251.7	7255.8	7305.4	7451.4	7773.8	8240.8	8819.4	8997.1	9322.2	9320.8	8455.7
22.5°	7075.3	7061.6	7071.2	7155.2	7392.2	7842.7	8502.5	8713.3	9163.8	9250.6	8278.0
25°	7042.3	7031.3	7003.7	7014.7	7158.0	7494.1	8182.9	8426.8	9024.6	9207.9	8123.7
27.5°	7145.6	7156.6	7109.8	7060.2	7071.2	7268.2	7899.1	8181.5	8911.7	9207.9	8014.9
30°	7353.6	7359.1	7324.7	7259.9	7173.1	7204.8	7702.1	7984.5	8855.2	9271.2	7946.0
32.5°	7583.7	7614.0	7609.8	7557.5	7433.5	7305.4	7655.3	7912.9	8851.1	9411.7	7939.1
35°	7868.8	7903.3	7961.1	7950.1	7820.6	7609.8	7815.1	8017.6	8932.3	9643.2	8013.5
37.5°	8171.9	8224.3	8348.2	8407.5	8323.4	8085.1	8173.3	8317.9	9150.0	10017.9	8202.2
40°	8465.3	8524.6	8750.5	8983.3	8919.9	8674.7	8716.1	8831.8	9537.1	10556.5	8560.4
42.5°	8753.2	8841.4	9173.4	9556.4	9632.2	9436.5	9458.6	9550.9	10111.6	11297.7	9145.9
45°	9097.6	9196.8	9688.6	10161.2	10363.7	10278.2	10371.9	10432.5	10862.3	12277.1	9935.2
47.5°	9603.2	9717.6	10321.0	10859.6	11215.0	11270.1	11458.8	11498.8	11811.5	13417.8	10964.3
50°	10589.6	10621.3	11166.8	11655.8	12168.3	12498.9	12713.8	12744.1	12960.4	14664.5	12249.6
52.5°	11830.8	11851.5	12160.0	12487.9	13070.6	13745.7	14248.5	14291.2	14336.6	15879.6	13518.4
55°	13063.7	13061.0	13264.9	13457.7	14124.5	15105.3	16196.4	16222.6	15896.1	17032.6	14488.2
57.5°	13833.8	13908.2	14218.2	14466.1	15397.4	16655.1	18169.1	18265.6	17534.0	17886.7	15447.0
60°	13588.6	13624.4	14311.8	15229.3	16983.0	18857.9	20165.3	20190.1	18765.6	18739.4	16659.3
62.5°	11577.3	11596.6	12676.6	14568.1	17786.1	21715.1	22573.3	22169.7	20181.8	19922.8	18109.9
65°	7935.0	8060.3	8962.6	11300.4	16310.7	23507.3	26301.1	25632.9	22340.5	21628.3	19421.4
67.5°	4672.8	4646.6	5093.0	6815.0	11979.6	22317.1	31016.6	30352.6	25284.4	22770.3	19037.0
70°	3191.9	3174.0	3344.8	4125.9	6762.6	17312.3	32500.3	33840.7	27883.9	22001.6	16383.8
72.5°	2278.5	2288.2	2540.3	3205.7	4245.8	10086.8	27948.7	31121.3	27069.8	19180.3	12453.5
75°	1547.0	1573.2	1934.1	2629.8	3722.3	5131.5	19833.3	23657.5	22042.9	13939.9	7158.0
77.5°	832.1	861.0	1286.7	2118.7	3365.5	3565.2	12757.9	16281.8	13846.2	6266.7	2074.7
80°	347.2	363.7	602.0	1540.2	2908.1	3131.3	7506.5	9873.2	5900.2	1235.7	462.9
82.5°	150.2	158.4	250.7	918.9	2173.8	2643.6	3974.4	4750.0	1788.1	271.4	232.8
85°	28.9	30.3	103.3	486.3	1387.2	1491.9	2576.1	2525.1	803.1	117.1	169.4
87.5°	0.0	0.0	24.8	152.9	407.8	812.8	1571.8	1552.6	272.8	56.5	63.4
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°	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4
2.5°	9709.3	9614.2	9414.5	9167.9	8979.2	8771.2	8605.8	8396.5	8305.5	8309.7	8260.1
5°	9491.6	9296.0	8853.8	8295.9	7866.1	7422.5	7040.9	6660.7	6436.1	6363.1	6294.2
7.5°	9180.3	8870.3	8165.0	7305.4	6578.0	5867.2	5248.6	4704.5	4360.1	4192.0	4130.0
10°	8829.0	8393.7	7372.9	6240.5	5201.8	4240.2	3438.5	2741.4	2463.1	2274.4	2226.2
12.5°	8520.4	7930.8	6598.7	5148.1	3915.1	2755.2	1990.6	1556.7	1368.0	1293.6	1281.2
15°	8229.8	7498.3	5853.4	4159.0	2711.1	1695.8	1266.0	1118.6	1074.5	1062.1	1062.1
17.5°	7955.6	7086.4	5124.7	3185.0	1793.6	1188.9	1048.4	1015.3	1001.5	1000.1	1001.5
20°	7669.1	6674.5	4408.3	2333.6	1252.2	1007.0	968.5	950.5	946.4	946.4	946.4
22.5°	7394.9	6262.6	3711.2	1666.9	1004.3	918.9	899.6	887.2	883.0	881.7	878.9
25°	7131.8	5871.3	3030.7	1177.8	881.7	841.7	825.2	808.6	796.3	789.4	785.2
27.5°	6915.5	5522.8	2397.0	945.0	796.3	761.8	741.1	716.4	686.0	672.3	666.8
30°	6743.3	5204.6	1847.4	797.6	716.4	681.9	650.2	607.5	563.4	540.0	538.6
32.5°	6608.3	4891.8	1402.4	705.3	644.7	602.0	556.5	502.8	451.9	425.7	424.3
35°	6542.2	4616.3	1071.8	637.8	581.3	527.6	471.1	411.9	362.3	337.5	334.8
37.5°	6586.3	4383.5	836.2	581.3	527.6	465.6	399.5	337.5	293.4	271.4	270.0
40°	6747.5	4234.7	679.2	533.1	482.2	406.4	334.8	276.9	239.7	221.8	220.4
42.5°	7090.5	4179.6	580.0	493.2	438.1	351.3	278.3	228.7	194.2	181.8	179.1
45°	7663.6	4260.9	512.5	454.6	392.6	298.9	230.1	187.4	157.0	147.4	146.0
47.5°	8426.8	4474.4	464.3	417.4	351.3	252.1	191.5	151.5	128.1	118.5	117.1
50°	9410.4	4813.3	424.3	380.2	312.7	213.5	158.4	119.9	99.2	92.3	92.3
52.5°	10480.8	5217.0	388.5	345.8	274.1	177.7	128.1	92.3	78.5	70.3	70.3
55°	11365.2	5569.6	349.9	319.6	227.3	147.4	97.8	70.3	57.9	53.7	53.7
57.5°	12248.2	5945.7	305.8	274.1	181.8	119.9	74.4	52.3	42.7	40.0	40.0
60°	13393.0	6405.8	263.1	223.2	143.3	90.9	55.1	37.2	31.7	30.3	30.3
62.5°	14652.1	6675.8	224.5	179.1	111.6	67.5	40.0	24.8	23.4	23.4	22.0
65°	15422.2	6294.2	188.7	143.3	86.8	51.0	26.2	17.9	20.7	19.3	16.5
67.5°	14440.0	4927.7	154.3	111.6	67.5	38.6	16.5	12.4	22.0	17.9	13.8
70°	11956.2	3449.5	119.9	78.5	53.7	33.1	11.0	8.3	23.4	17.9	11.0
72.5°	8947.5	2308.9	95.1	52.3	40.0	28.9	9.6	4.1	20.7	15.2	9.6
75°	4889.1	929.9	75.8	33.1	24.8	20.7	6.9	2.8	13.8	11.0	6.9
77.5°	1286.7	245.2	55.1	22.0	13.8	8.3	4.1	1.4	6.9	5.5	2.8
80°	327.9	95.1	35.8	15.2	9.6	4.1	0.0	0.0	1.4	0.0	0.0
82.5°	175.0	40.0	22.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	132.2	26.2	12.4	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	51.0	8.3	4.1	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)