

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: P323901

Luminaire Tested: **GAN-SA7D-750-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44542 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

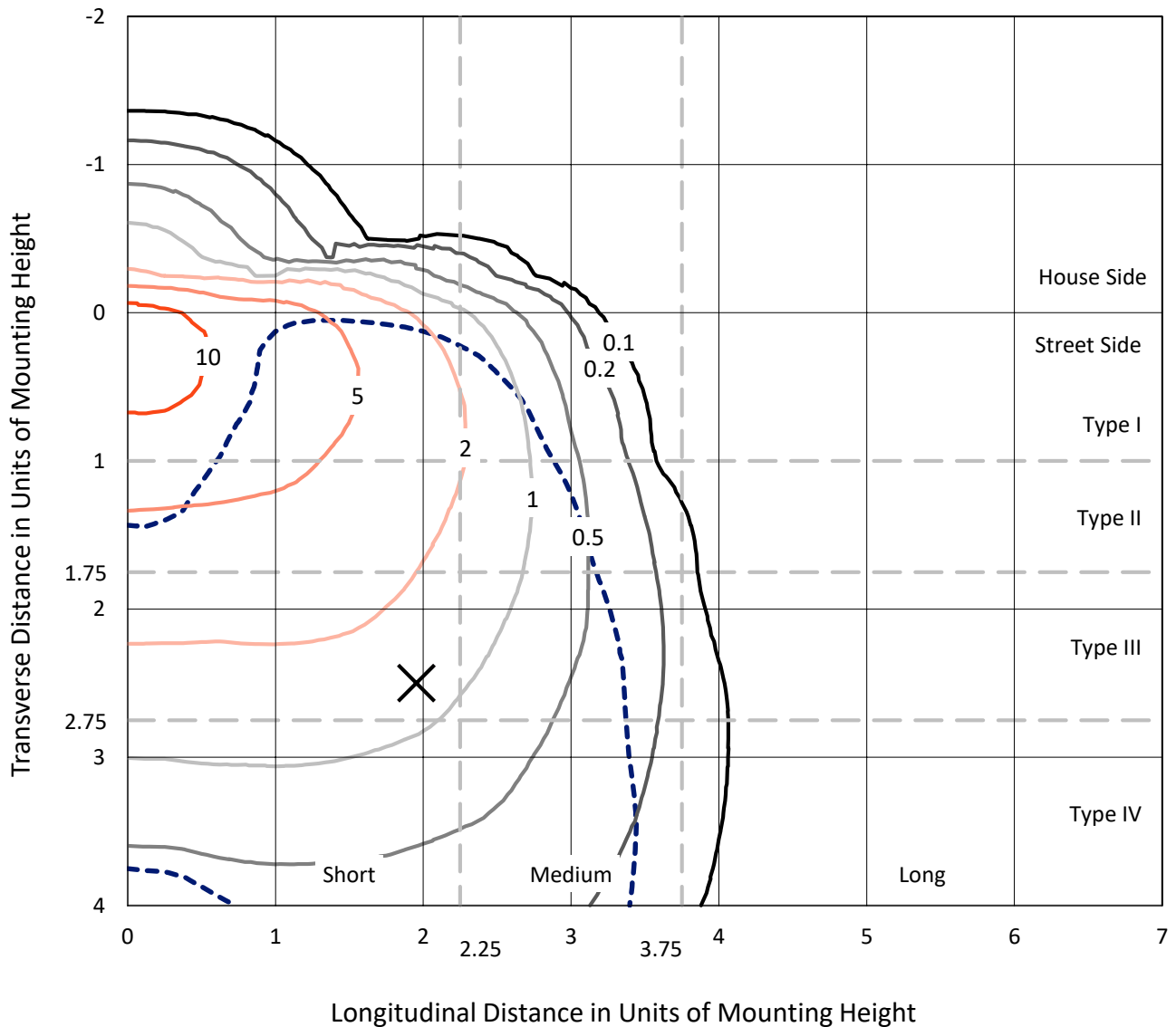
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

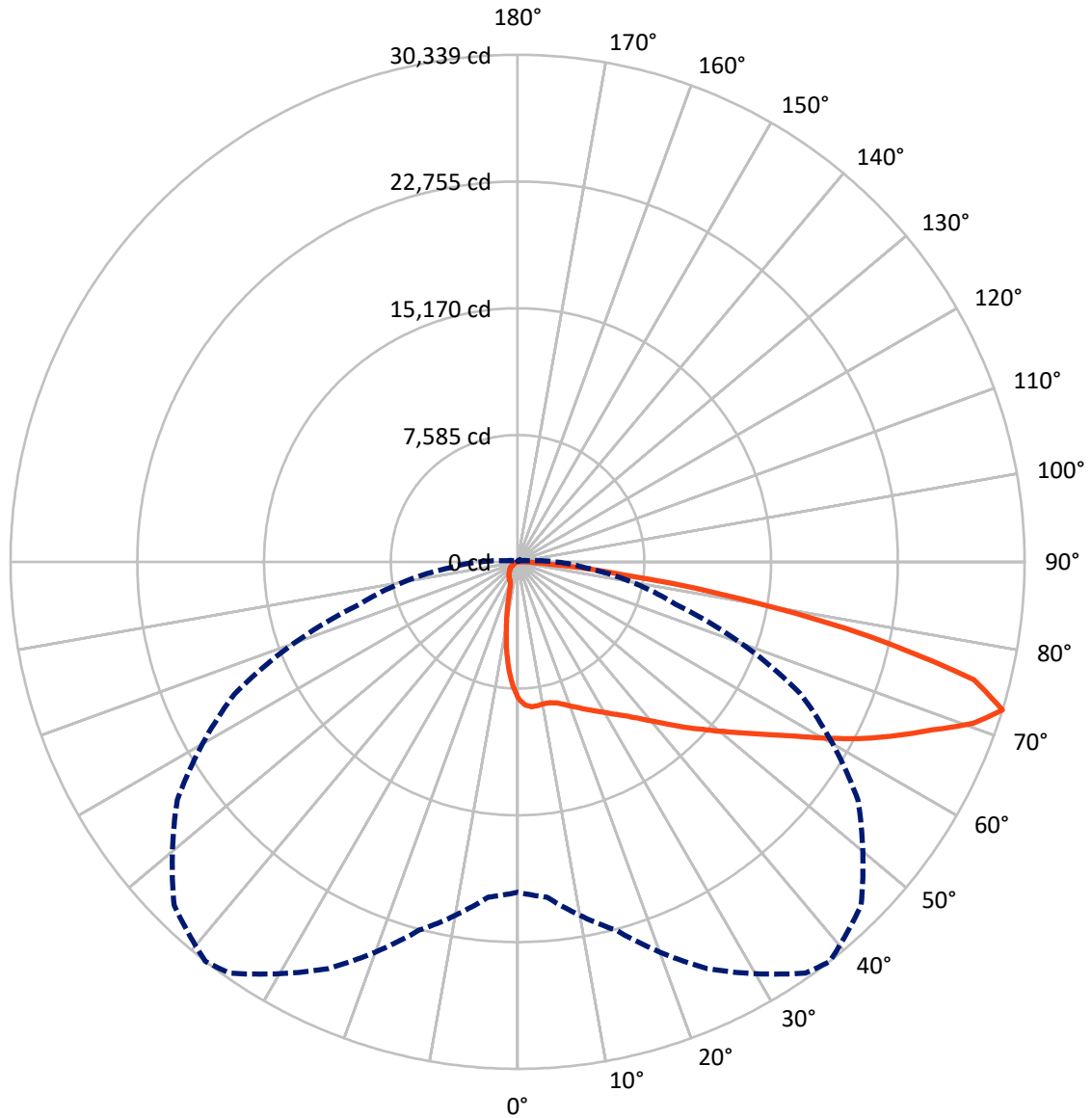
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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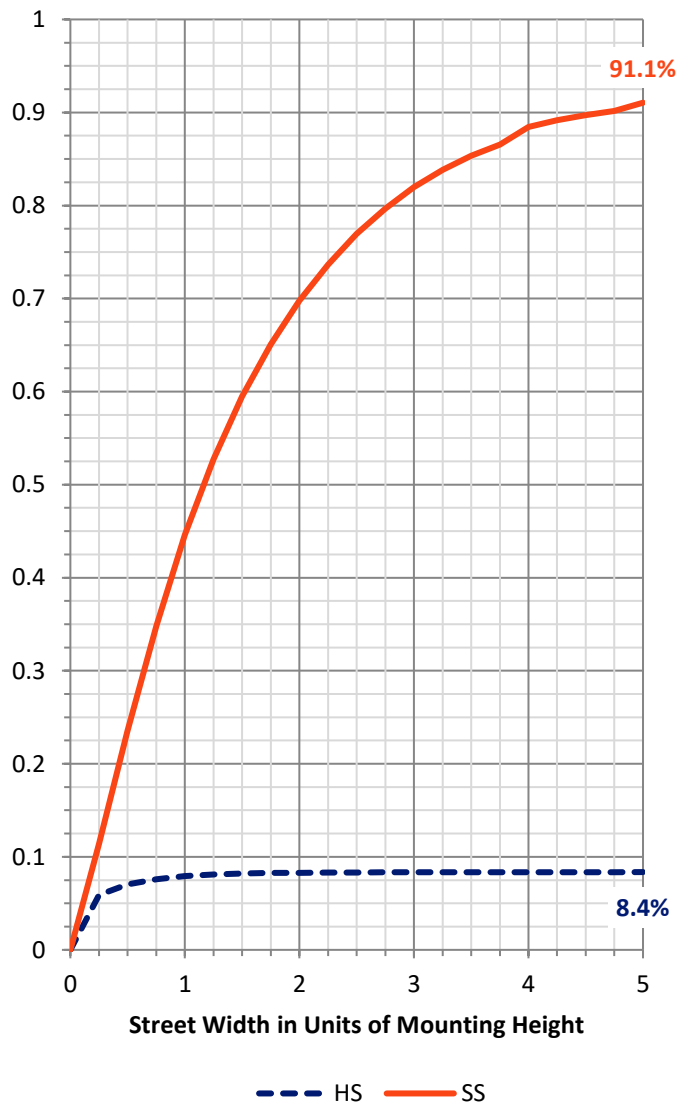
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3748.4	0.0	3748.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	40793.6	0.0	40793.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	44542.0	0.0	44542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.0	1.6
10°-20°	1706.9	3.8
20°-30°	2714.7	6.1
30°-40°	4081.3	9.2
40°-50°	6226.3	14.0
50°-60°	8799.9	19.8
60°-70°	11038.0	24.8
70°-80°	8253.4	18.5
80°-90°	1023.4	2.3
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°	44542.0	100.0
0°-180°	44542.0	100.0

Coefficient of Utilization



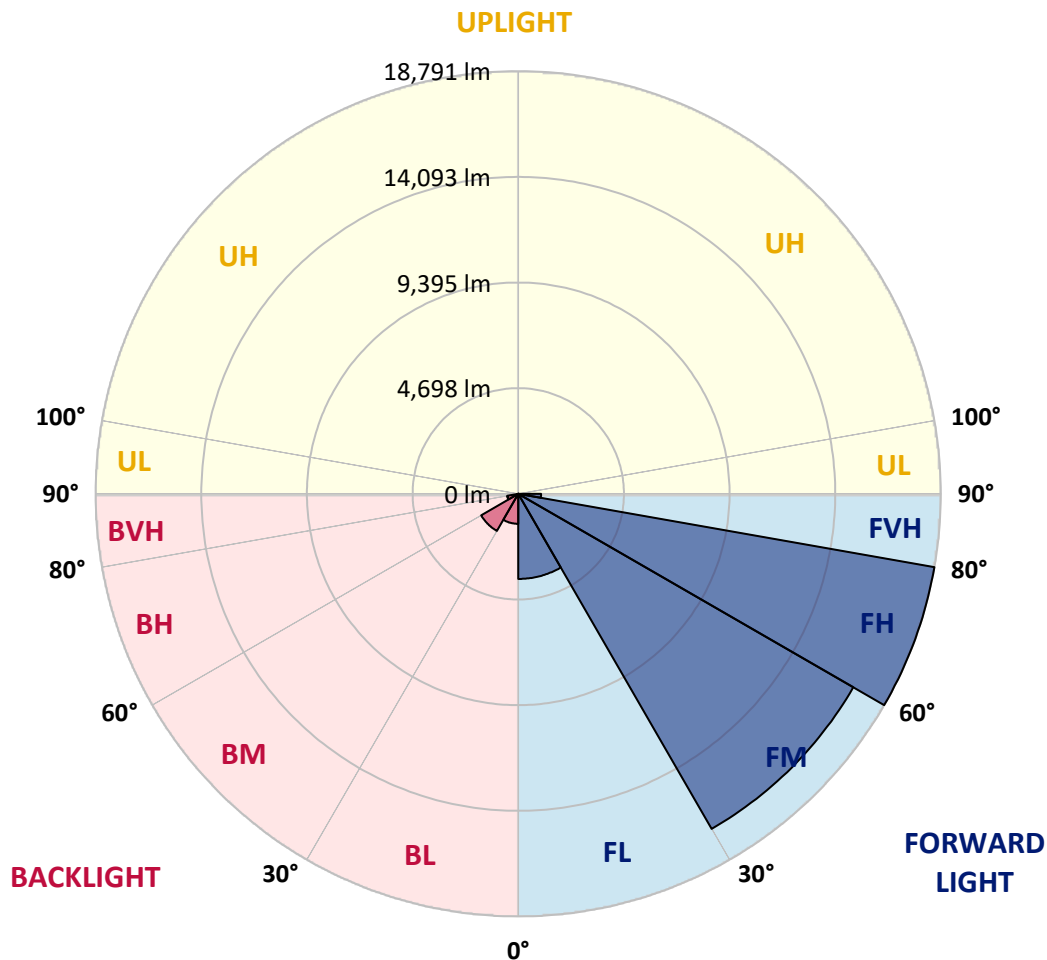
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3785.0	8.5			
FM (30°-60°)	17204.1	38.6			
FH (60°-80°)	18790.7	42.2			G5
FVH (80°-90°)	1013.8	2.3			G5
BL (0°-30°)	1334.7	3.0	B3/2500		
BM (30°-60°)	1903.5	4.3	B2/2500		
BH (60°-80°)	500.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1
2.5°	8694.3	8696.1	8675.8	8642.5	8599.9	8577.7	8540.7	8481.6	8418.7	8305.8	8183.7
5°	8871.9	8871.9	8846.0	8801.6	8733.1	8712.8	8642.5	8548.1	8418.7	8235.5	8030.2
7.5°	8853.4	8857.1	8821.9	8775.7	8707.2	8688.7	8603.6	8498.2	8337.3	8115.3	7852.6
10°	8757.2	8766.4	8738.7	8716.5	8653.6	8633.2	8553.7	8448.3	8287.3	8050.5	7749.0
12.5°	8659.1	8668.4	8677.6	8698.0	8659.1	8651.7	8588.8	8500.1	8346.5	8100.5	7760.1
15°	8596.2	8614.7	8681.3	8760.9	8770.1	8762.7	8722.0	8638.8	8483.4	8228.1	7839.7
17.5°	8596.2	8625.8	8764.6	8916.3	8969.9	8975.5	8940.3	8823.8	8638.8	8365.0	7913.6
20°	8668.4	8709.1	8925.5	9140.1	9228.9	9228.9	9160.4	8997.7	8781.2	8489.0	7963.6
22.5°	8853.4	8907.0	9178.9	9426.8	9521.2	9500.8	9408.3	9171.5	8929.2	8629.5	8026.5
25°	9217.8	9258.5	9541.5	9791.2	9848.6	9802.3	9685.8	9382.4	9117.9	8820.1	8141.2
27.5°	9687.7	9693.2	9985.5	10196.4	10161.2	10129.8	9983.6	9647.0	9389.8	9092.0	8339.1
30°	10203.8	10203.8	10460.9	10621.8	10514.5	10488.6	10342.5	9967.0	9737.6	9462.0	8620.3
32.5°	10703.2	10725.4	10934.5	11036.2	10916.0	10890.1	10747.6	10372.1	10200.1	10026.2	9058.7
35°	11186.0	11202.7	11400.6	11456.1	11341.4	11348.8	11247.1	10928.9	10864.2	10842.0	9719.1
37.5°	11654.0	11657.7	11859.4	11894.5	11837.2	11900.1	11909.3	11628.1	11748.4	11927.8	10649.6
40°	12081.4	12085.1	12284.8	12375.5	12473.5	12554.9	12627.1	12477.2	12874.9	13291.2	11757.6
42.5°	12423.6	12462.4	12715.9	12887.9	13146.9	13302.3	13498.3	13490.9	14216.1	14841.3	13096.9
45°	12725.1	12791.7	13145.0	13446.5	13890.5	14138.4	14445.5	14685.9	15725.6	16567.2	14452.9
47.5°	13122.8	13185.7	13589.0	14082.9	14674.8	15000.4	15509.1	16028.9	17384.9	18261.7	15777.4
50°	13683.3	13655.6	14053.3	14761.8	15522.1	15949.4	16674.5	17453.3	19031.2	19737.9	16556.1
52.5°	14280.8	14269.7	14563.9	15499.9	16521.0	17020.5	17978.7	18925.8	20605.5	20755.3	16913.2
55°	15020.8	14941.2	15189.1	16341.6	17706.7	18243.2	19371.6	20383.5	21859.7	21328.7	17092.6
57.5°	15795.9	15664.5	15901.3	17279.4	19044.2	19678.7	20914.4	21804.2	22693.9	21720.9	17090.7
60°	16596.8	16441.4	16722.6	18452.2	20705.3	21439.7	22586.6	22764.2	23472.7	21918.8	16965.0
62.5°	17266.5	17174.0	17592.1	19706.4	22560.7	23282.2	23850.1	23637.4	24129.4	22072.4	16670.8
65°	17975.0	17980.5	18655.7	21169.7	24532.7	25019.2	25067.3	24769.5	24678.8	22040.9	15675.6
67.5°	18933.2	19022.0	20148.5	23156.4	26451.0	26826.5	26822.8	25995.9	25080.2	20790.4	13468.7
70°	19946.9	20155.9	21868.9	25429.9	28545.0	28926.1	28730.0	26776.5	23615.2	16811.4	9532.3
72.5°	19776.7	20139.3	22825.3	26863.5	30048.9	30339.4	29064.8	24858.3	18665.0	9770.9	4058.6
75°	15257.5	15677.5	20929.2	25442.8	28471.0	28210.2	24972.9	19343.9	10200.1	2726.7	913.8
77.5°	8059.8	8283.6	13825.8	19382.7	22200.0	21654.3	17592.1	10731.0	3109.6	675.2	410.7
80°	4221.4	4273.1	6025.0	10997.3	13701.8	13705.5	10425.7	4713.4	1281.9	345.9	275.6
82.5°	2260.5	2304.9	3183.6	5081.5	7179.3	6507.8	3992.0	2593.5	745.5	196.1	264.5
85°	543.9	553.1	1805.5	2321.6	2822.9	2016.3	1185.8	2177.3	201.6	114.7	214.6
87.5°	209.0	212.7	669.6	1004.5	719.6	466.2	555.0	812.1	25.9	44.4	33.3
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°	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1	8191.1
2.5°	8109.7	8061.6	7943.2	7793.4	7660.2	7564.0	7419.7	7325.4	7262.5	7260.7	7236.6
5°	7904.4	7806.4	7551.1	7247.7	6972.1	6724.2	6431.9	6200.7	6028.7	6000.9	5941.7
7.5°	7684.3	7523.3	7131.2	6657.6	6195.1	5725.3	5179.6	4841.1	4550.6	4411.9	4397.1
10°	7549.2	7323.5	6766.7	6082.3	5357.2	4593.2	3879.1	3385.2	3028.2	2926.5	2850.6
12.5°	7521.5	7223.7	6485.6	5542.1	4506.2	3496.2	2706.3	2181.0	1896.1	1805.5	1781.4
15°	7549.2	7177.4	6248.8	5007.5	3644.2	2480.6	1816.6	1511.3	1404.0	1378.1	1376.3
17.5°	7565.9	7121.9	5980.6	4413.7	2808.1	1772.2	1391.1	1302.3	1285.6	1283.8	1287.5
20°	7564.0	7036.8	5660.5	3751.5	2088.5	1392.9	1257.9	1239.4	1235.7	1237.5	1235.7
22.5°	7551.1	6936.9	5309.1	3068.9	1577.9	1244.9	1200.6	1189.5	1187.6	1187.6	1187.6
25°	7575.1	6857.4	4922.4	2415.9	1300.4	1176.5	1148.8	1139.5	1137.7	1137.7	1134.0
27.5°	7662.1	6813.0	4498.8	1859.1	1174.7	1115.5	1093.3	1091.4	1085.9	1084.0	1087.7
30°	7802.7	6813.0	4034.5	1446.6	1098.8	1052.6	1035.9	1032.2	1030.4	1028.5	1030.4
32.5°	8050.5	6864.8	3527.7	1202.4	1026.7	982.3	971.2	976.7	971.2	971.2	971.2
35°	8498.2	7020.2	2996.8	1048.9	950.8	913.8	902.7	910.1	906.4	906.4	904.6
37.5°	9151.2	7308.7	2462.1	956.4	884.2	845.4	830.6	841.7	838.0	838.0	836.1
40°	9946.6	7728.7	1953.4	886.1	819.5	778.8	765.8	771.4	762.1	762.1	765.8
42.5°	10928.9	8261.4	1509.5	817.6	754.7	715.9	708.5	702.9	686.3	677.0	678.9
45°	12020.3	8816.4	1176.5	751.0	693.7	662.2	651.1	636.3	608.6	590.1	592.0
47.5°	12995.2	9243.7	956.4	686.3	638.2	614.1	597.5	569.8	529.1	506.9	508.7
50°	13507.6	9308.4	813.9	621.5	586.4	562.4	538.3	495.8	447.7	423.6	421.8
52.5°	13638.9	9005.1	708.5	562.4	534.6	506.9	475.4	418.1	364.4	338.5	334.8
55°	13687.0	8542.6	614.1	506.9	479.1	447.7	407.0	342.2	292.3	266.4	264.5
57.5°	13527.9	7852.6	540.2	456.9	423.6	384.8	334.8	273.8	225.7	205.3	205.3
60°	13174.6	6918.4	482.8	403.3	366.3	321.9	270.1	212.7	168.3	151.7	151.7
62.5°	12469.8	5708.6	429.2	347.8	312.6	266.4	218.3	160.9	118.4	109.1	111.0
65°	11139.8	4330.5	375.5	297.8	266.4	220.1	170.2	114.7	79.5	79.5	83.2
67.5°	9084.6	3007.9	320.0	253.4	229.4	179.4	129.5	79.5	55.5	62.9	70.3
70°	6013.9	1687.1	273.8	209.0	196.1	142.4	96.2	53.6	44.4	59.2	72.1
72.5°	2269.8	656.7	229.4	168.3	170.2	109.1	68.4	40.7	40.7	64.7	85.1
75°	632.6	321.9	164.6	123.9	133.2	79.5	49.9	35.1	38.8	74.0	99.9
77.5°	371.8	236.8	107.3	72.1	90.6	55.5	33.3	27.7	33.3	62.9	96.2
80°	299.7	125.8	62.9	37.0	49.9	31.4	22.2	16.6	9.2	24.0	49.9
82.5°	299.7	75.8	29.6	25.9	25.9	16.6	11.1	7.4	1.8	0.0	12.9
85°	201.6	31.4	18.5	16.6	12.9	5.5	3.7	1.8	0.0	0.0	0.0
87.5°	33.3	12.9	7.4	3.7	1.8	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)