

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: P323823

Luminaire Tested: **GAN-SA9D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323823
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-SA9D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 51270 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

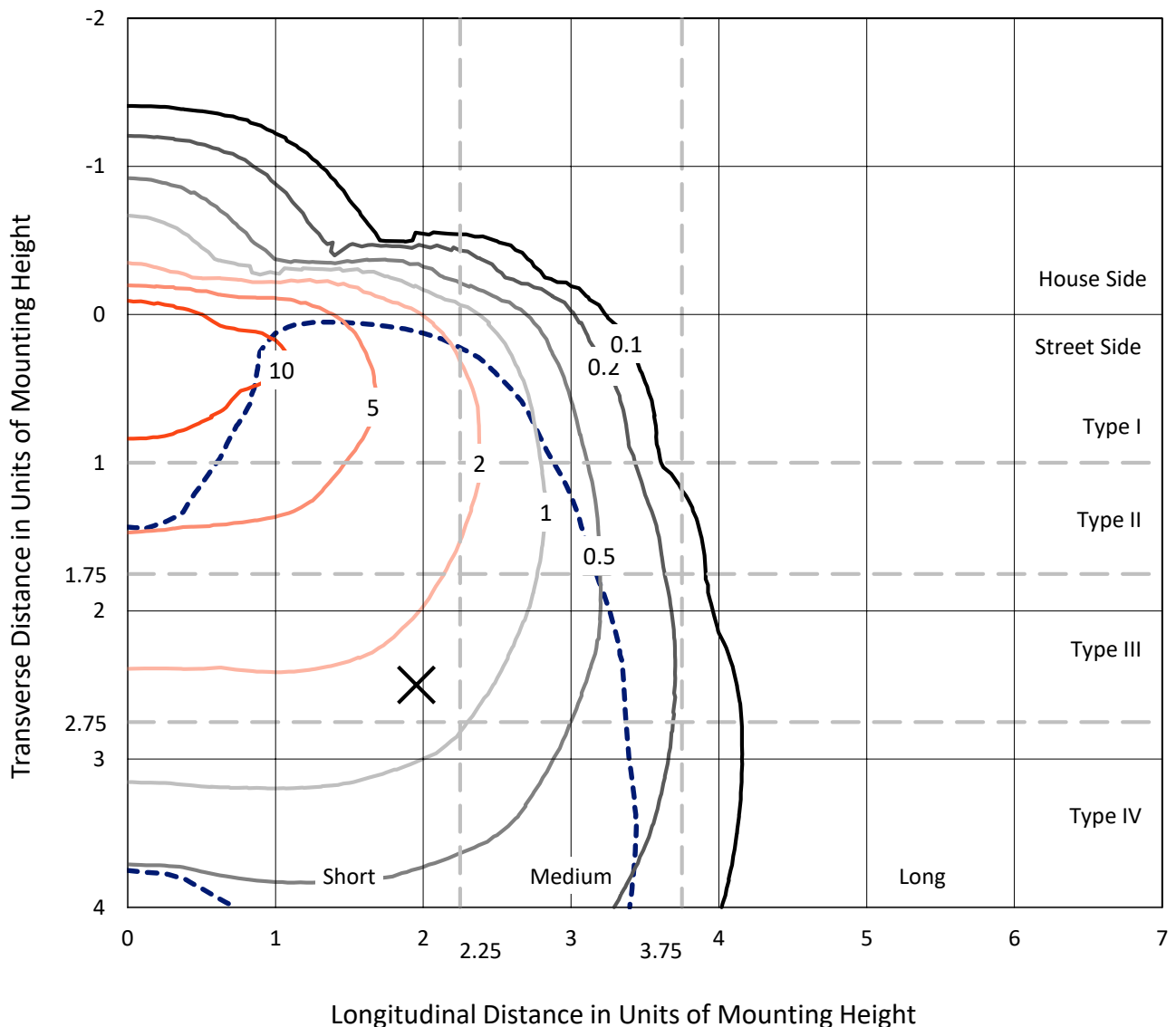
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

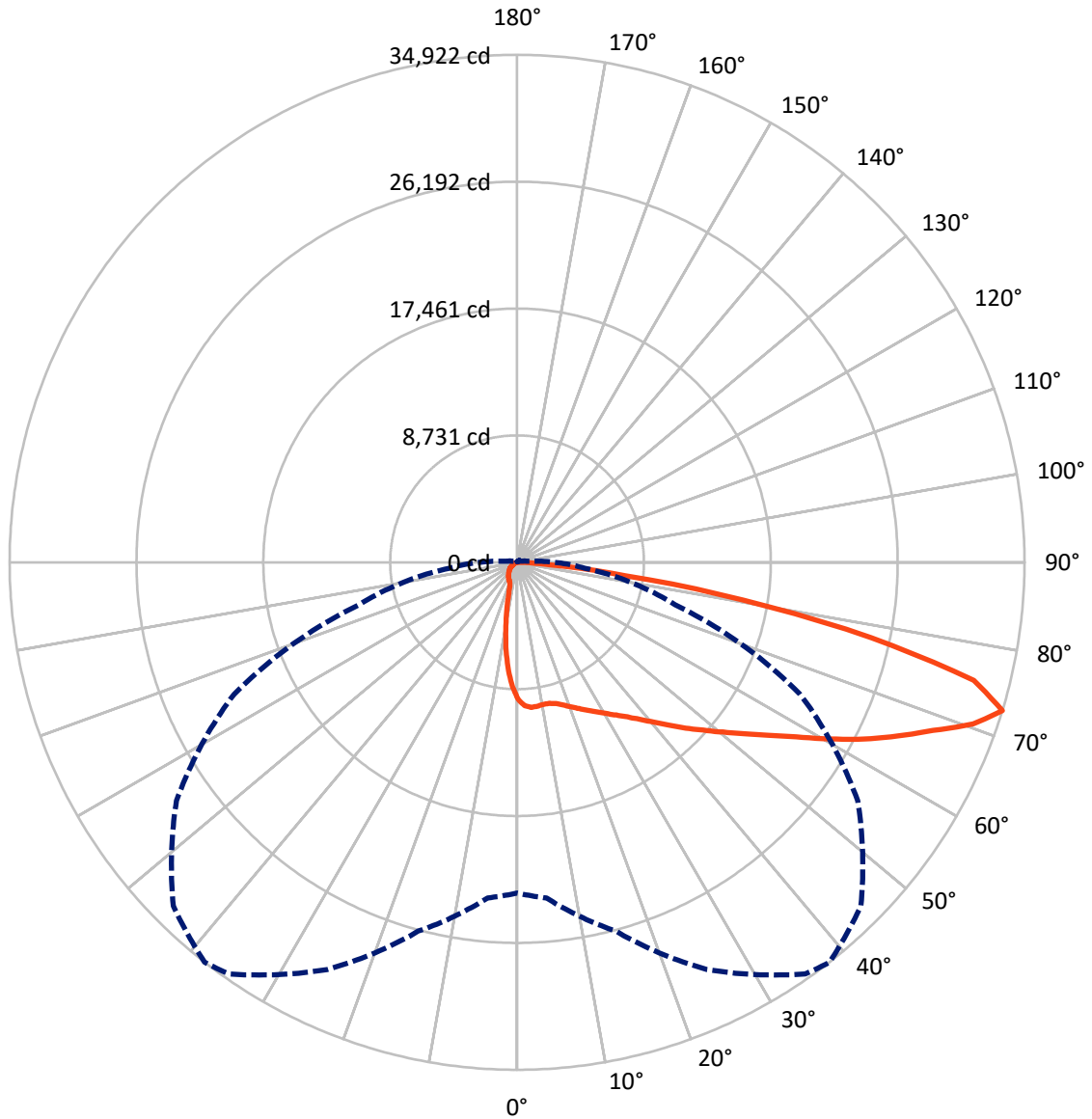
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type 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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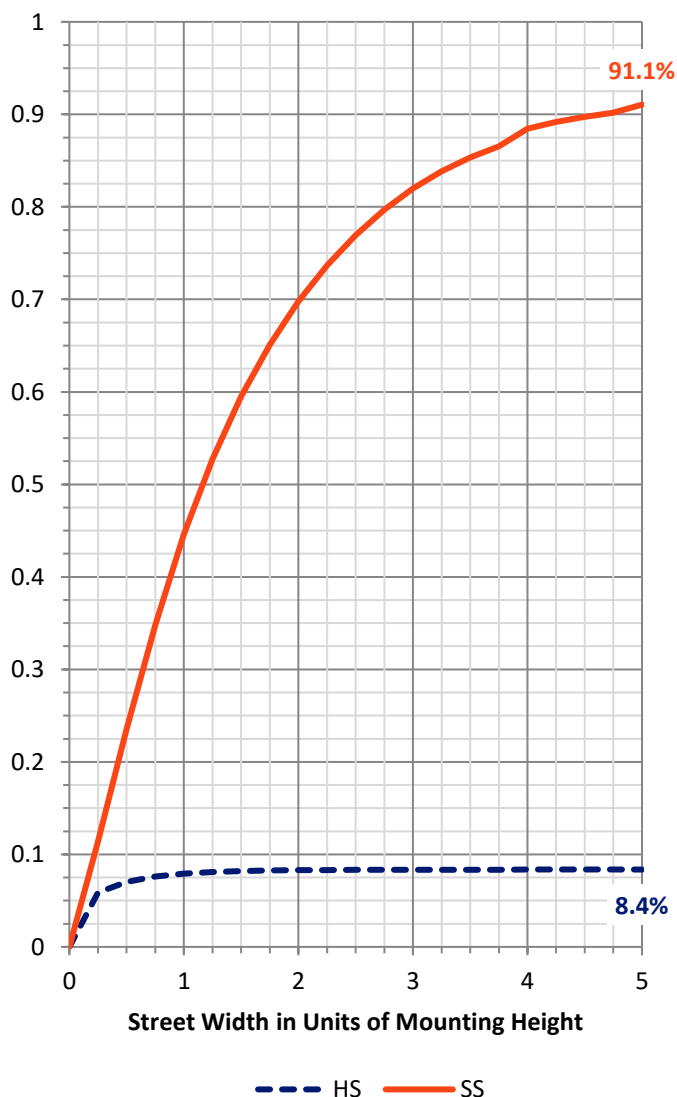
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4314.6	0.0	4314.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	46955.4	0.0	46955.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	51270.0	0.0	51270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.5	1.6
10°-20°	1964.7	3.8
20°-30°	3124.8	6.1
30°-40°	4697.8	9.2
40°-50°	7166.8	14.0
50°-60°	10129.1	19.8
60°-70°	12705.3	24.8
70°-80°	9500.0	18.5
80°-90°	1178.0	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°	51270.0	100.0
0°-180°	51270.0	100.0

Coefficient of Utilization

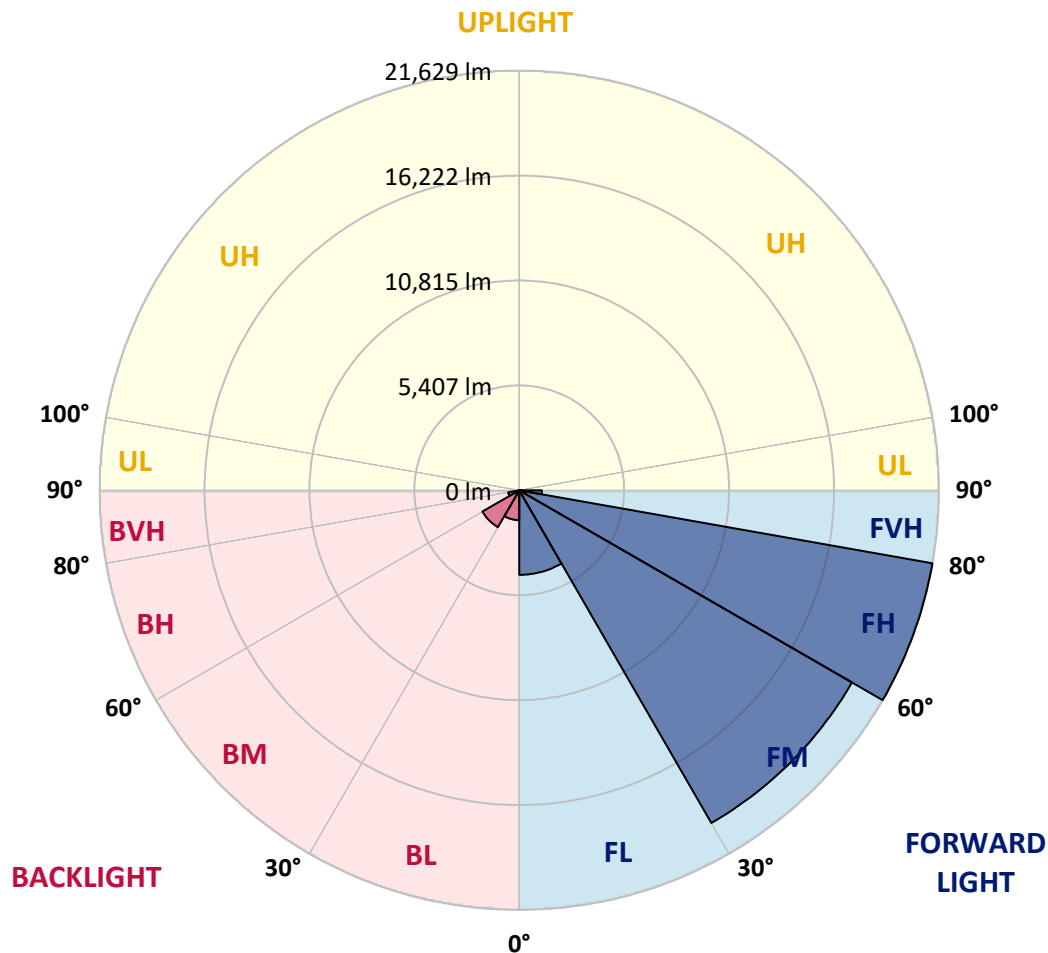


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4356.7	8.5			
FM (30°-60°)	19802.7	38.6			
FH (60°-80°)	21629.0	42.2			G5
FVH (80°-90°)	1167.0	2.3			G5
BL (0°-30°)	1536.3	3.0	B3/2500		
BM (30°-60°)	2191.0	4.3	B2/2500		
BH (60°-80°)	576.3	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.0	0.0			G1/100
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°	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4
2.5°	10007.5	10009.7	9986.3	9947.9	9899.0	9873.4	9830.8	9762.7	9690.3	9560.4	9419.9
5°	10212.0	10212.0	10182.1	10131.0	10052.3	10028.8	9947.9	9839.3	9690.3	9479.5	9243.1
7.5°	10190.7	10194.9	10154.5	10101.2	10022.4	10001.2	9903.2	9781.8	9596.6	9341.1	9038.7
10°	10079.9	10090.6	10058.6	10033.1	9960.7	9937.3	9845.7	9724.4	9539.1	9266.6	8919.5
12.5°	9967.1	9977.7	9988.4	10011.8	9967.1	9958.6	9886.2	9784.0	9607.2	9324.1	8932.3
15°	9894.7	9916.0	9992.6	10084.2	10094.8	10086.3	10039.5	9943.7	9764.8	9471.0	9023.8
17.5°	9894.7	9928.8	10088.5	10263.1	10324.8	10331.2	10290.7	10156.6	9943.7	9628.5	9109.0
20°	9977.7	10024.6	10273.7	10520.7	10622.9	10622.9	10544.1	10356.7	10107.6	9771.2	9166.5
22.5°	10190.7	10252.4	10565.4	10850.7	10959.3	10935.9	10829.4	10556.9	10278.0	9933.0	9238.9
25°	10610.1	10657.0	10982.7	11270.2	11336.2	11283.0	11148.8	10799.6	10495.1	10152.3	9370.9
27.5°	11151.0	11157.3	11493.8	11736.5	11696.1	11659.9	11491.6	11104.1	10808.1	10465.3	9598.7
30°	11745.0	11745.0	12041.0	12226.2	12102.7	12072.9	11904.7	11472.5	11208.4	10891.2	9922.4
32.5°	12319.9	12345.5	12586.1	12703.2	12564.8	12535.0	12371.0	11938.8	11740.8	11540.6	10427.0
35°	12875.7	12894.8	13122.7	13186.5	13054.5	13063.0	12945.9	12579.7	12505.2	12479.6	11187.2
37.5°	13414.4	13418.6	13650.7	13691.2	13625.2	13697.6	13708.2	13384.6	13523.0	13729.5	12258.2
40°	13906.2	13910.5	14140.4	14244.8	14357.6	14451.3	14534.4	14361.9	14819.7	15298.8	13533.6
42.5°	14300.1	14344.9	14636.6	14834.6	15132.7	15311.5	15537.2	15528.7	16363.4	17083.1	15075.2
45°	14647.2	14723.9	15130.6	15477.6	15988.6	16274.0	16627.4	16904.2	18100.9	19069.7	16635.9
47.5°	15105.0	15177.4	15641.6	16210.1	16891.5	17266.2	17851.8	18450.1	20010.8	21020.1	18160.5
50°	15750.2	15718.2	16176.0	16991.5	17866.7	18358.5	19193.2	20089.6	21905.9	22719.3	19056.9
52.5°	16437.9	16425.1	16763.7	17841.1	19016.5	19591.4	20694.3	21784.5	23717.9	23890.3	19467.9
55°	17289.6	17198.1	17483.4	18809.9	20381.3	20998.8	22297.7	23462.4	25161.5	24550.4	19674.4
57.5°	18181.8	18030.6	18303.2	19889.5	21920.8	22651.1	24073.5	25097.6	26121.8	25001.8	19672.3
60°	19103.8	18924.9	19248.6	21239.4	23832.9	24678.2	25998.3	26202.7	27018.2	25229.7	19527.5
62.5°	19874.6	19768.1	20249.3	22683.1	25968.5	26798.9	27452.6	27207.7	27774.1	25406.4	19188.9
65°	20690.1	20696.5	21473.6	24367.3	28238.3	28798.3	28853.7	28510.9	28406.5	25370.2	18043.4
67.5°	21793.0	21895.2	23192.0	26654.1	30446.4	30878.6	30874.3	29922.6	28868.6	23930.8	15503.2
70°	22959.9	23200.5	25172.2	29271.0	32856.7	33295.3	33069.6	30821.1	27182.2	19350.8	10972.1
72.5°	22764.0	23181.3	26273.0	30921.2	34587.8	34922.1	33455.0	28613.1	21484.3	11246.8	4671.6
75°	17562.2	18045.5	24090.5	29285.9	32771.5	32471.3	28745.1	22265.7	11740.8	3138.5	1051.9
77.5°	9277.2	9534.8	15914.1	22310.4	25553.3	24925.2	20249.3	12351.9	3579.3	777.2	472.7
80°	4859.0	4918.6	6935.0	12658.5	15771.5	15775.7	12000.5	5425.4	1475.6	398.2	317.3
82.5°	2602.0	2653.1	3664.5	5849.1	8263.7	7490.8	4595.0	2985.2	858.1	225.7	304.5
85°	626.0	636.7	2078.2	2672.2	3249.3	2320.9	1364.9	2506.1	232.1	132.0	247.0
87.5°	240.6	244.9	770.8	1156.2	828.3	536.6	638.8	934.7	29.8	51.1	38.3
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°	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4	9428.4
2.5°	9334.7	9279.3	9143.1	8970.6	8817.3	8706.6	8540.5	8431.9	8359.5	8357.4	8329.7
5°	9098.3	8985.5	8691.7	8342.5	8025.2	7739.9	7403.5	7137.3	6939.3	6907.3	6839.2
7.5°	8845.0	8659.7	8208.3	7663.2	7130.9	6590.1	5961.9	5572.3	5238.0	5078.3	5061.3
10°	8689.5	8429.8	7788.9	7001.0	6166.4	5287.0	4465.1	3896.6	3485.6	3368.5	3281.2
12.5°	8657.6	8314.8	7465.2	6379.3	5186.9	4024.3	3115.1	2510.4	2182.5	2078.2	2050.5
15°	8689.5	8261.5	7192.7	5763.9	4194.7	2855.3	2090.9	1739.6	1616.1	1586.3	1584.2
17.5°	8708.7	8197.7	6883.9	5080.4	3232.2	2039.8	1601.2	1499.0	1479.8	1477.7	1482.0
20°	8706.6	8099.7	6515.5	4318.1	2403.9	1603.3	1447.9	1426.6	1422.3	1424.5	1422.3
22.5°	8691.7	7984.7	6111.0	3532.5	1816.3	1433.0	1381.9	1369.1	1367.0	1367.0	1367.0
25°	8719.3	7893.2	5666.0	2780.8	1496.9	1354.2	1322.3	1311.6	1309.5	1309.5	1305.2
27.5°	8819.4	7842.1	5178.4	2139.9	1352.1	1283.9	1258.4	1256.3	1249.9	1247.7	1252.0
30°	8981.2	7842.1	4643.9	1665.1	1264.8	1211.6	1192.4	1188.1	1186.0	1183.9	1186.0
32.5°	9266.6	7901.7	4060.5	1384.0	1181.7	1130.6	1117.9	1124.3	1117.9	1117.9	1117.9
35°	9781.8	8080.6	3449.4	1207.3	1094.4	1051.9	1039.1	1047.6	1043.3	1043.3	1041.2
37.5°	10533.5	8412.7	2834.1	1100.8	1017.8	973.1	956.0	968.8	964.6	964.6	962.4
40°	11449.1	8896.1	2248.5	1019.9	943.3	896.4	881.5	887.9	877.3	877.3	881.5
42.5°	12579.7	9509.3	1737.5	941.1	868.7	824.0	815.5	809.1	790.0	779.3	781.4
45°	13836.0	10148.1	1354.2	864.5	798.5	762.3	749.5	732.5	700.5	679.2	681.4
47.5°	14958.1	10639.9	1100.8	790.0	734.6	706.9	687.8	655.8	609.0	583.4	585.5
50°	15547.9	10714.5	936.9	715.4	675.0	647.3	619.6	570.6	515.3	487.6	485.5
52.5°	15699.1	10365.3	815.5	647.3	615.4	583.4	547.2	481.2	419.5	389.7	385.4
55°	15754.4	9832.9	706.9	583.4	551.5	515.3	468.4	393.9	336.4	306.6	304.5
57.5°	15571.3	9038.7	621.7	525.9	487.6	442.9	385.4	315.1	259.8	236.3	236.3
60°	15164.6	7963.4	555.7	464.2	421.6	370.5	310.9	244.9	193.8	174.6	174.6
62.5°	14353.4	6570.9	494.0	400.3	359.8	306.6	251.3	185.2	136.3	125.6	127.8
65°	12822.4	4984.6	432.2	342.8	306.6	253.4	195.9	132.0	91.6	91.6	95.8
67.5°	10456.8	3462.2	368.4	291.7	264.0	206.5	149.0	91.6	63.9	72.4	80.9
70°	6922.2	1941.9	315.1	240.6	225.7	164.0	110.7	61.7	51.1	68.1	83.0
72.5°	2612.6	755.9	264.0	193.8	195.9	125.6	78.8	46.8	46.8	74.5	97.9
75°	728.2	370.5	189.5	142.7	153.3	91.6	57.5	40.5	44.7	85.2	115.0
77.5°	428.0	272.5	123.5	83.0	104.3	63.9	38.3	31.9	38.3	72.4	110.7
80°	344.9	144.8	72.4	42.6	57.5	36.2	25.6	19.2	10.6	27.7	57.5
82.5°	344.9	87.3	34.1	29.8	29.8	19.2	12.8	8.5	2.1	0.0	14.9
85°	232.1	36.2	21.3	19.2	14.9	6.4	4.3	2.1	0.0	0.0	0.0
87.5°	38.3	14.9	8.5	4.3	2.1	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)