

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: P323859

Luminaire Tested: **GAN-SA5D-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323859
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-SA5D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 31474 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

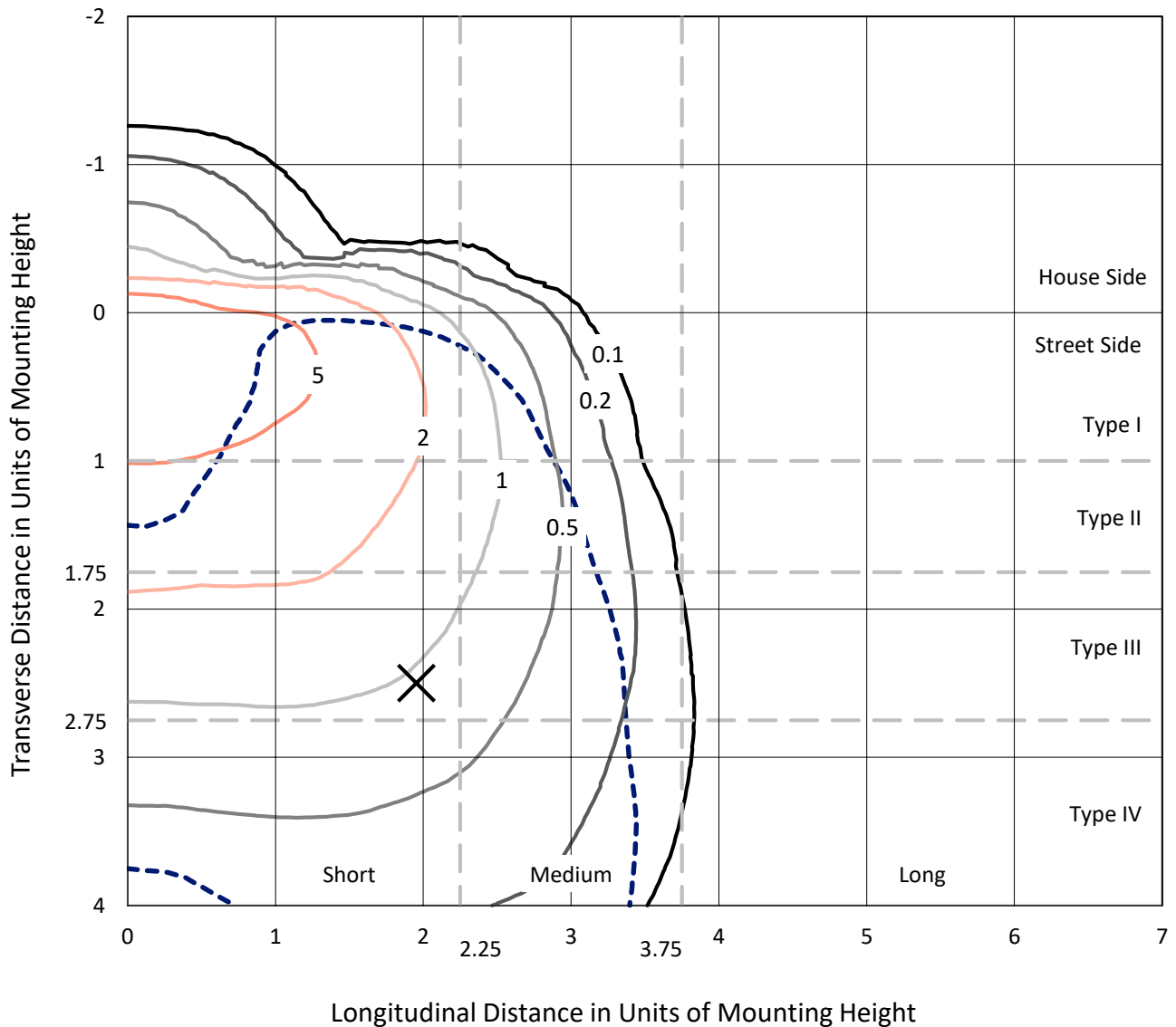
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

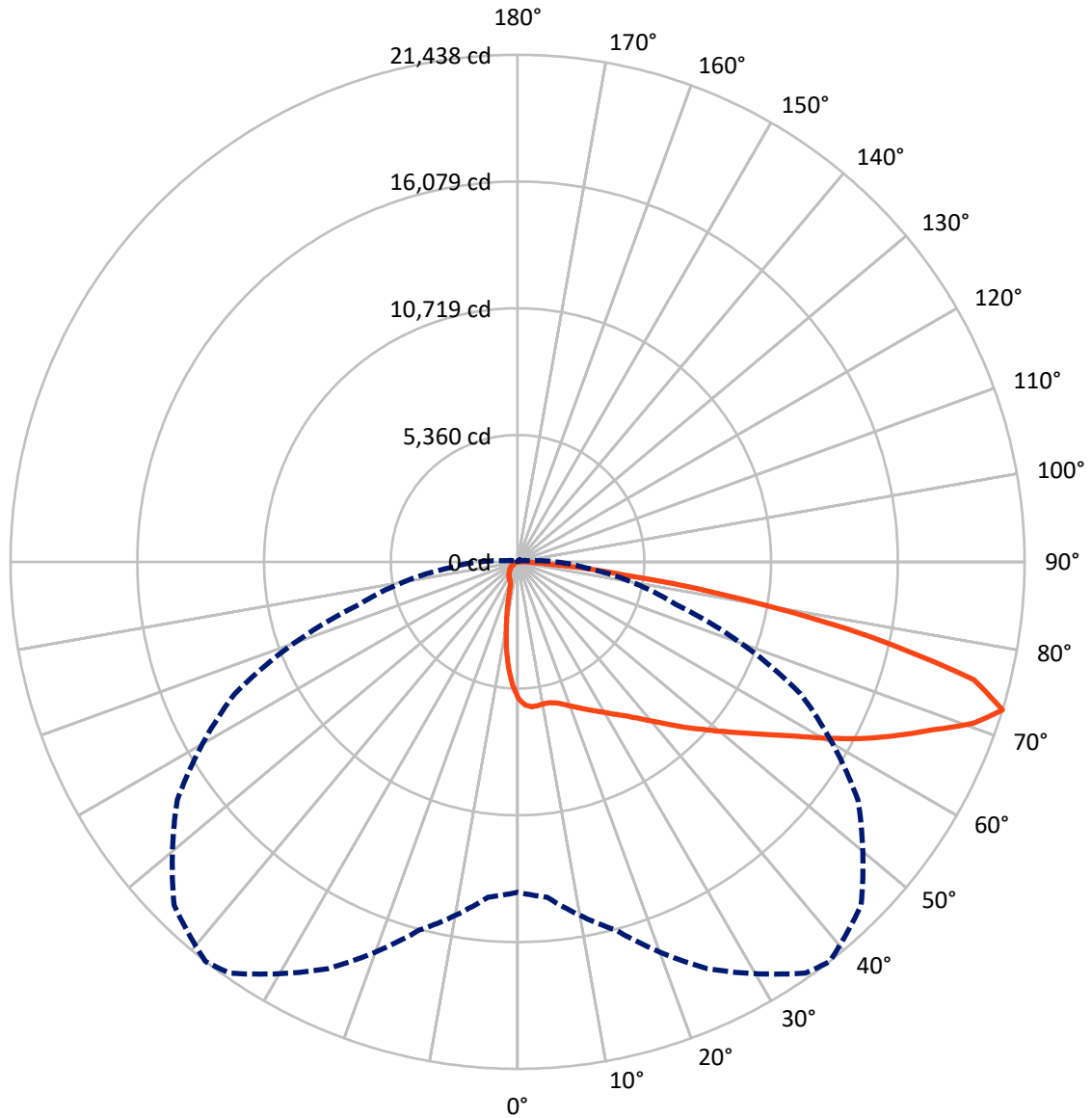
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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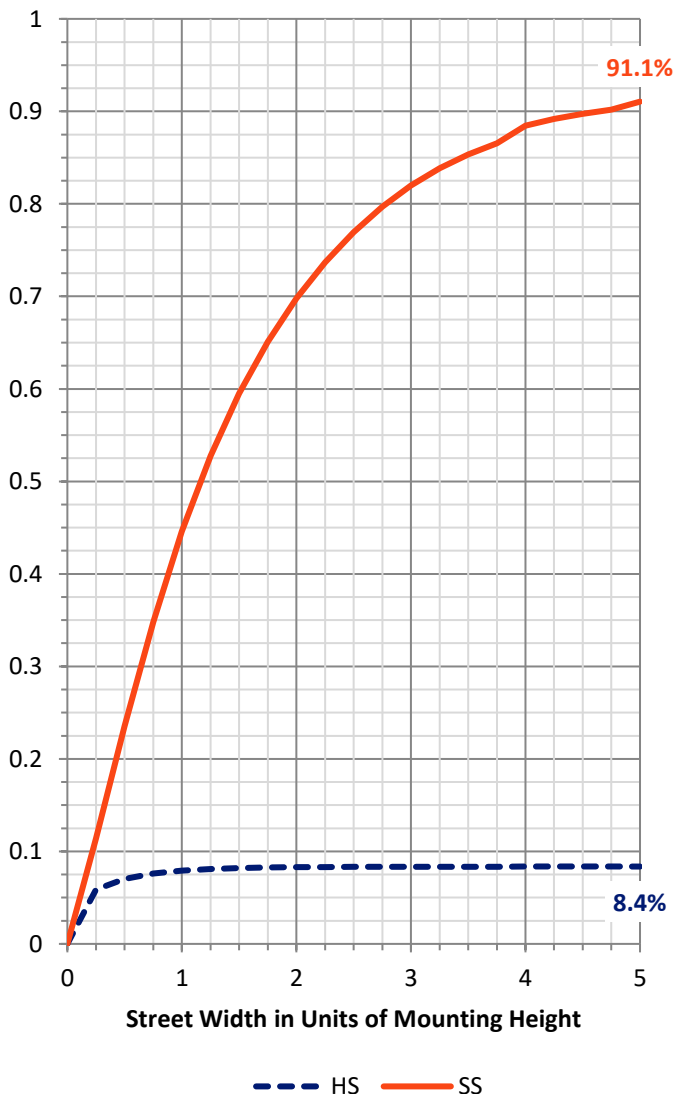
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2648.7	0.0	2648.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28825.4	0.0	28825.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	31474.0	0.0	31474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.6
10°-20°	1206.1	3.8
20°-30°	1918.3	6.1
30°-40°	2883.9	9.2
40°-50°	4399.6	14.0
50°-60°	6218.1	19.8
60°-70°	7799.6	24.8
70°-80°	5831.9	18.5
80°-90°	723.1	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°	31474.0	100.0
0°-180°	31474.0	100.0

Coefficient of Utilization

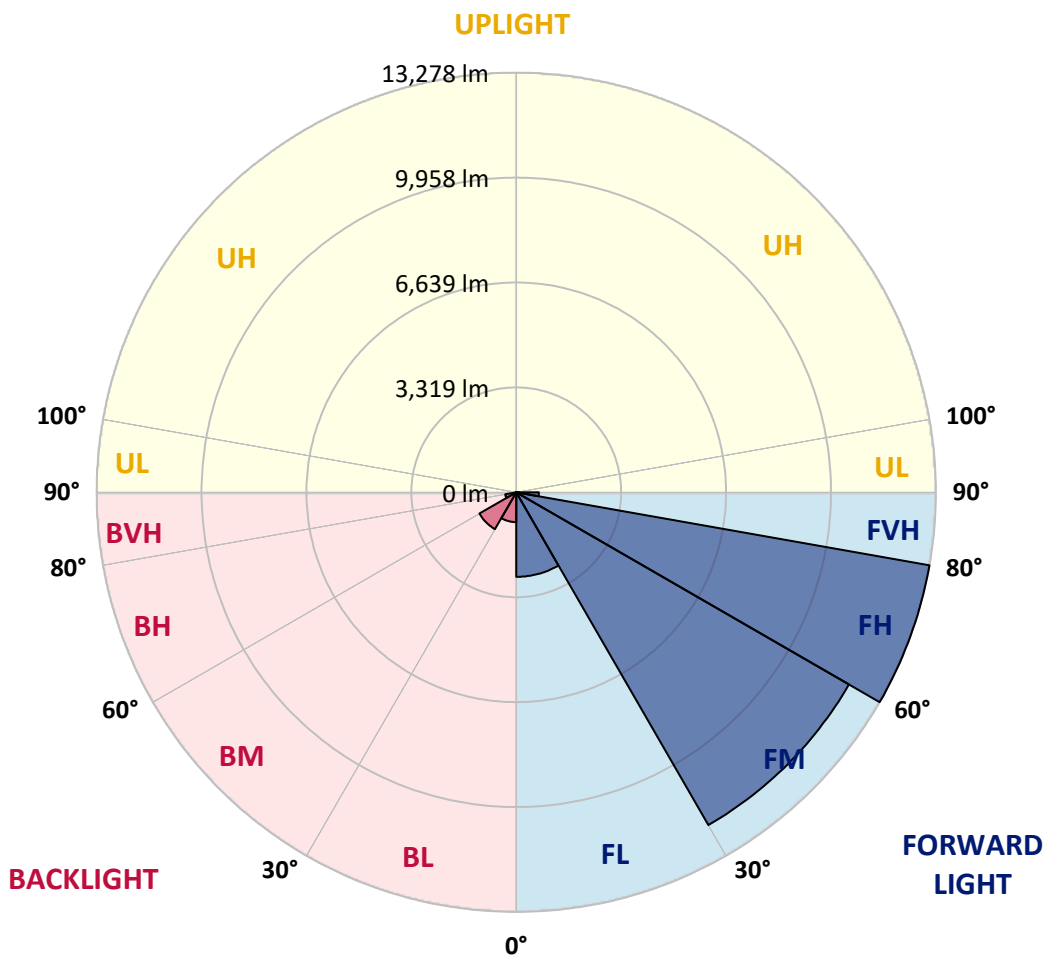


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2674.5	8.5			
FM (30°-60°)	12156.7	38.6			
FH (60°-80°)	13277.8	42.2			G5
FVH (80°-90°)	716.4	2.3			G4/750
BL (0°-30°)	943.1	3.0	B2/1000		
BM (30°-60°)	1345.0	4.3	B2/2500		
BH (60°-80°)	353.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.7	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0
2.5°	6143.5	6144.8	6130.4	6106.9	6076.8	6061.2	6035.0	5993.2	5948.7	5869.0	5782.7
5°	6269.0	6269.0	6250.7	6219.3	6171.0	6156.6	6106.9	6040.2	5948.7	5819.3	5674.2
7.5°	6255.9	6258.5	6233.7	6201.0	6152.7	6139.6	6079.5	6004.9	5891.2	5734.4	5548.8
10°	6187.9	6194.5	6174.9	6159.2	6114.7	6100.4	6044.2	5969.7	5855.9	5688.6	5475.6
12.5°	6118.7	6125.2	6131.7	6146.1	6118.7	6113.4	6069.0	6006.3	5897.8	5723.9	5483.4
15°	6074.2	6087.3	6134.4	6190.6	6197.1	6191.9	6163.1	6104.3	5994.5	5814.1	5539.6
17.5°	6074.2	6095.1	6193.2	6300.4	6338.3	6342.2	6317.4	6235.0	6104.3	5910.8	5591.9
20°	6125.2	6154.0	6306.9	6458.5	6521.3	6521.3	6472.9	6357.9	6204.9	5998.4	5627.2
22.5°	6255.9	6293.8	6486.0	6661.1	6727.8	6713.4	6648.1	6480.7	6309.5	6097.8	5671.6
25°	6513.4	6542.2	6742.2	6918.6	6959.2	6926.5	6844.1	6629.8	6442.8	6232.4	5752.7
27.5°	6845.4	6849.4	7055.9	7204.9	7180.1	7157.8	7054.6	6816.7	6635.0	6424.5	5892.5
30°	7210.1	7210.1	7391.8	7505.5	7429.7	7411.4	7308.2	7042.8	6880.7	6686.0	6091.2
32.5°	7563.0	7578.7	7726.4	7798.3	7713.4	7695.1	7594.4	7329.1	7207.5	7084.6	6401.0
35°	7904.2	7916.0	8055.8	8095.0	8014.0	8019.2	7947.3	7722.5	7676.8	7661.1	6867.7
37.5°	8234.9	8237.5	8380.0	8404.8	8364.3	8408.8	8415.3	8216.6	8301.6	8428.4	7525.1
40°	8536.9	8539.5	8680.6	8744.7	8814.0	8871.5	8922.5	8816.6	9097.6	9391.7	8308.1
42.5°	8778.7	8806.1	8985.2	9106.8	9289.8	9399.6	9538.1	9532.9	10045.3	10487.1	9254.5
45°	8991.7	9038.8	9288.5	9501.5	9815.2	9990.4	10207.4	10377.3	11111.9	11706.6	10212.6
47.5°	9272.8	9317.2	9602.2	9951.2	10369.5	10599.5	10959.0	11326.3	12284.4	12904.0	11148.5
50°	9668.8	9649.2	9930.3	10430.9	10968.1	11270.1	11782.5	12332.8	13447.7	13947.1	11698.8
52.5°	10091.0	10083.2	10291.0	10952.4	11674.0	12026.9	12704.0	13373.2	14560.1	14666.0	11951.1
55°	10613.9	10557.7	10732.8	11547.2	12511.8	12890.9	13688.2	14403.2	15446.3	15071.2	12077.9
57.5°	11161.6	11068.8	11236.1	12209.9	13456.9	13905.2	14778.4	15407.1	16035.9	15348.3	12076.6
60°	11727.6	11617.8	11816.4	13038.6	14630.7	15149.6	15960.0	16085.5	16586.2	15488.2	11987.7
62.5°	12200.7	12135.4	12430.8	13924.8	15941.7	16451.5	16852.8	16702.5	17050.2	15596.7	11779.8
65°	12701.4	12705.3	13182.4	14958.8	17335.1	17678.9	17712.9	17502.5	17438.4	15574.4	11076.6
67.5°	13378.5	13441.2	14237.2	16362.6	18690.6	18956.0	18953.4	18369.1	17722.0	14690.8	9517.2
70°	14094.8	14242.5	15452.9	17969.1	20170.3	20439.6	20301.0	18920.7	16686.8	11879.2	6735.6
72.5°	13974.5	14230.7	16128.7	18982.1	21233.0	21438.2	20537.6	17565.2	13188.9	6904.3	2867.8
75°	10781.2	11077.9	14788.9	17978.2	20118.0	19933.7	17646.2	13668.6	7207.5	1926.7	645.7
77.5°	5695.2	5853.3	9769.5	13696.1	15686.8	15301.2	12430.8	7582.7	2197.3	477.1	290.2
80°	2982.9	3019.5	4257.3	7770.9	9681.9	9684.5	7367.0	3330.6	905.8	244.4	194.8
82.5°	1597.3	1628.7	2249.6	3590.7	5073.0	4598.5	2820.8	1832.6	526.8	138.6	186.9
85°	384.3	390.8	1275.8	1640.4	1994.7	1424.8	837.9	1538.5	142.5	81.0	151.6
87.5°	147.7	150.3	473.2	709.8	508.5	329.4	392.1	573.8	18.3	31.4	23.5
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°	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0	5788.0
2.5°	5730.5	5696.5	5612.8	5506.9	5412.8	5344.8	5242.9	5176.2	5131.8	5130.5	5113.5
5°	5585.4	5516.1	5335.7	5121.3	4926.6	4751.4	4544.9	4381.5	4259.9	4240.3	4198.5
7.5°	5429.8	5316.1	5039.0	4704.4	4377.6	4045.6	3660.0	3420.8	3215.5	3117.5	3107.0
10°	5334.4	5174.9	4781.5	4297.8	3785.4	3245.6	2741.0	2392.0	2139.8	2067.9	2014.3
12.5°	5314.8	5104.3	4582.8	3916.2	3184.2	2470.5	1912.3	1541.1	1339.8	1275.8	1258.8
15°	5334.4	5071.7	4415.5	3538.4	2575.0	1752.9	1283.6	1067.9	992.1	973.8	972.5
17.5°	5346.2	5032.4	4225.9	3118.8	1984.2	1252.2	983.0	920.2	908.5	907.1	909.8
20°	5344.8	4972.3	3999.8	2650.9	1475.7	984.3	888.8	875.8	873.2	874.5	873.2
22.5°	5335.7	4901.7	3751.5	2168.5	1115.0	879.7	848.3	840.5	839.2	839.2	839.2
25°	5352.7	4845.5	3478.3	1707.1	918.9	831.3	811.7	805.2	803.9	803.9	801.3
27.5°	5414.1	4814.2	3178.9	1313.7	830.0	788.2	772.5	771.2	767.3	766.0	768.6
30°	5513.5	4814.2	2850.8	1022.2	776.4	743.8	732.0	729.4	728.1	726.8	728.1
32.5°	5688.6	4850.8	2492.7	849.6	725.5	694.1	686.2	690.2	686.2	686.2	686.2
35°	6004.9	4960.6	2117.5	741.1	671.9	645.7	637.9	643.1	640.5	640.5	639.2
37.5°	6466.4	5164.5	1739.8	675.8	624.8	597.4	586.9	594.7	592.1	592.1	590.8
40°	7028.4	5461.2	1380.3	626.1	579.1	550.3	541.2	545.1	538.5	538.5	541.2
42.5°	7722.5	5837.6	1066.6	577.8	533.3	505.9	500.6	496.7	484.9	478.4	479.7
45°	8493.7	6229.8	831.3	530.7	490.2	468.0	460.1	449.7	430.0	417.0	418.3
47.5°	9182.6	6531.7	675.8	484.9	451.0	434.0	422.2	402.6	373.8	358.2	359.5
50°	9544.7	6577.5	575.1	439.2	414.4	397.4	380.4	350.3	316.3	299.3	298.0
52.5°	9637.5	6363.1	500.6	397.4	377.8	358.2	335.9	295.4	257.5	239.2	236.6
55°	9671.4	6036.3	434.0	358.2	338.5	316.3	287.6	241.8	206.5	188.2	186.9
57.5°	9559.0	5548.8	381.7	322.9	299.3	271.9	236.6	193.5	159.5	145.1	145.1
60°	9309.4	4888.7	341.2	285.0	258.8	227.4	190.8	150.3	118.9	107.2	107.2
62.5°	8811.4	4033.8	303.3	245.7	220.9	188.2	154.2	113.7	83.7	77.1	78.4
65°	7871.5	3060.0	265.3	210.4	188.2	155.5	120.3	81.0	56.2	56.2	58.8
67.5°	6419.3	2125.4	226.1	179.1	162.1	126.8	91.5	56.2	39.2	44.4	49.7
70°	4249.5	1192.1	193.5	147.7	138.6	100.6	68.0	37.9	31.4	41.8	51.0
72.5°	1603.8	464.0	162.1	118.9	120.3	77.1	48.4	28.8	28.8	45.7	60.1
75°	447.0	227.4	116.3	87.6	94.1	56.2	35.3	24.8	27.4	52.3	70.6
77.5°	262.7	167.3	75.8	51.0	64.0	39.2	23.5	19.6	23.5	44.4	68.0
80°	211.8	88.9	44.4	26.1	35.3	22.2	15.7	11.8	6.5	17.0	35.3
82.5°	211.8	53.6	20.9	18.3	18.3	11.8	7.8	5.2	1.3	0.0	9.1
85°	142.5	22.2	13.1	11.8	9.1	3.9	2.6	1.3	0.0	0.0	0.0
87.5°	23.5	9.1	5.2	2.6	1.3	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)