

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: P323824

Luminaire Tested: **GAN-SA0D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323824
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-SA0D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 56763 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

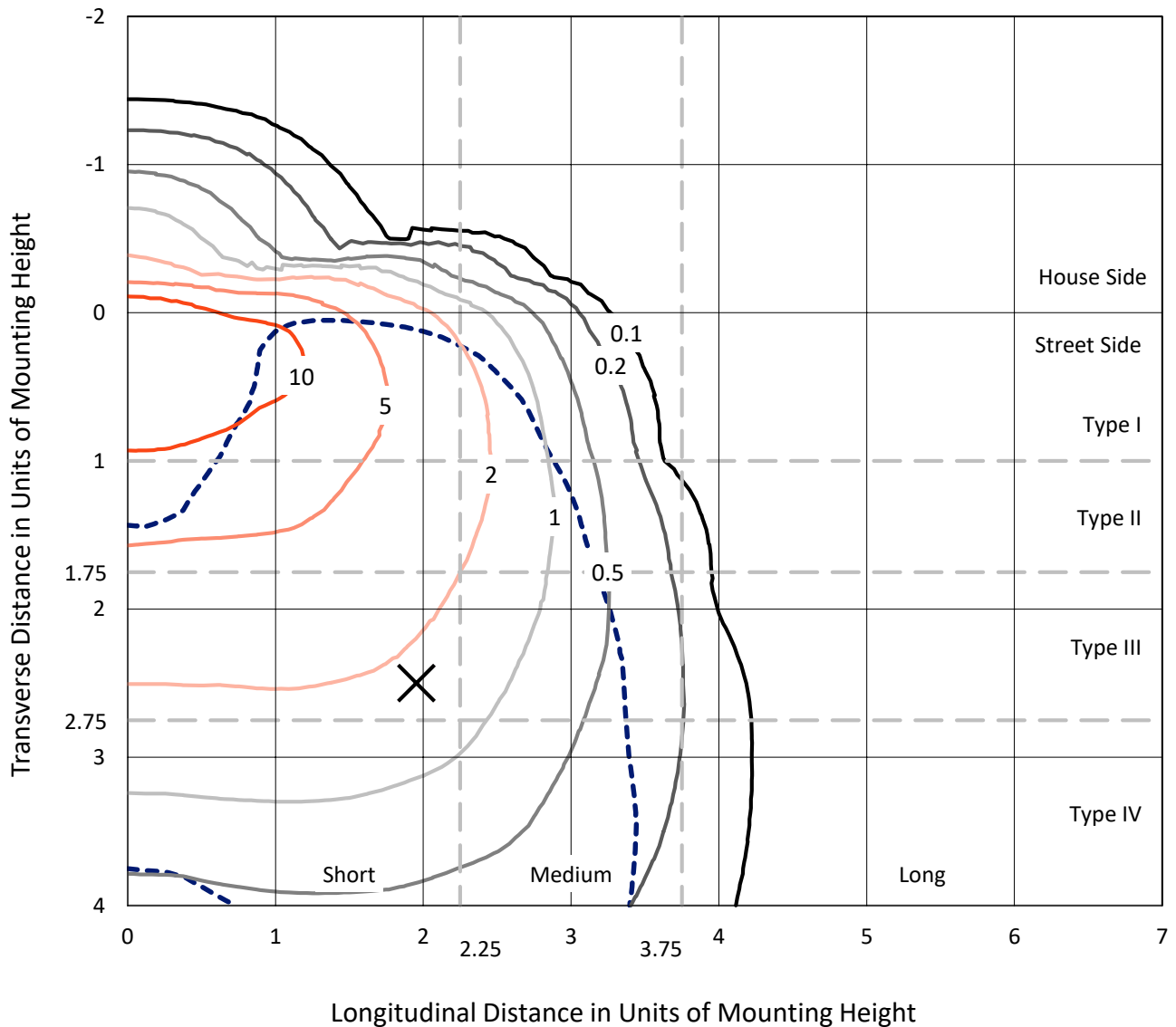
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

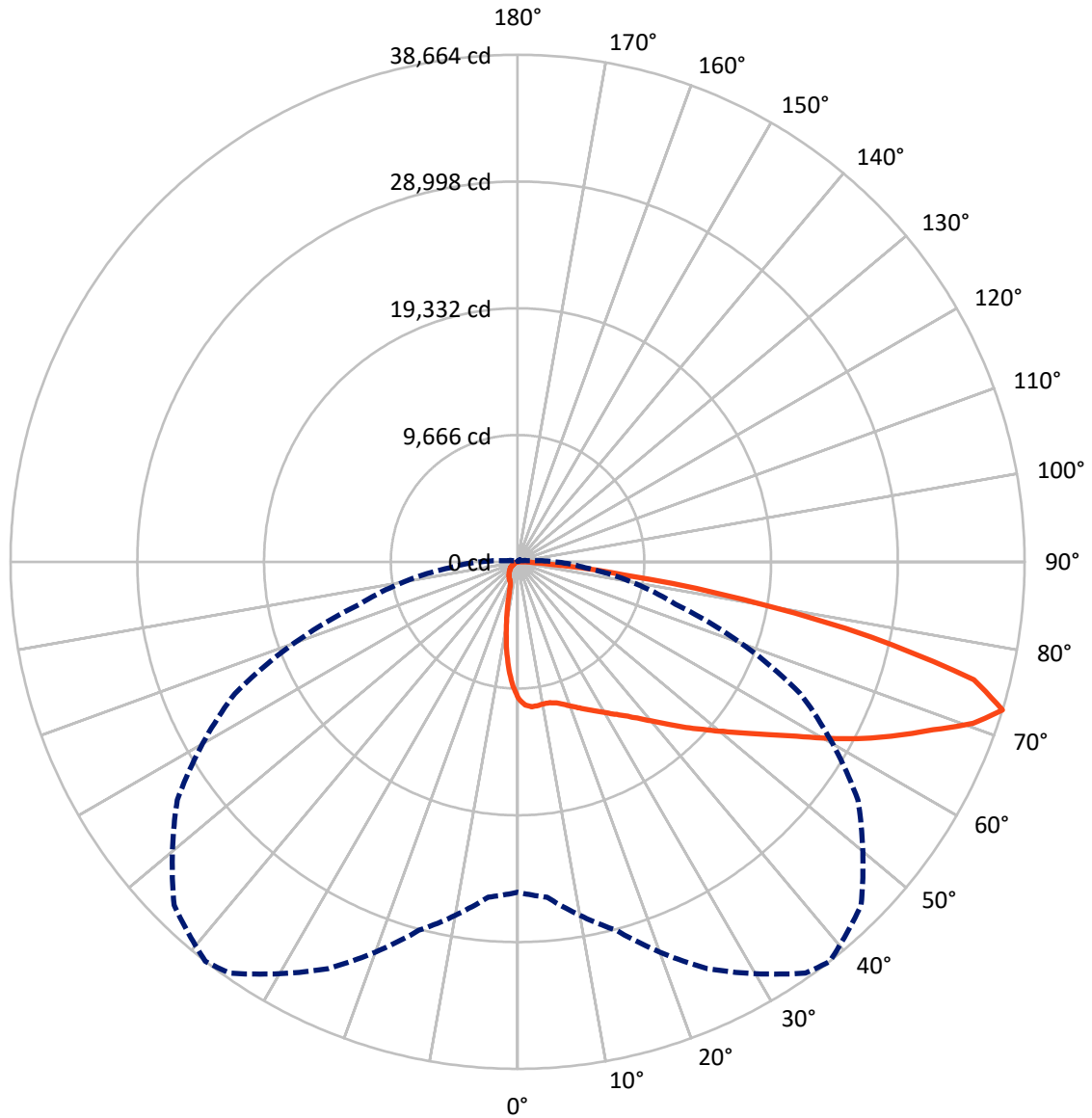
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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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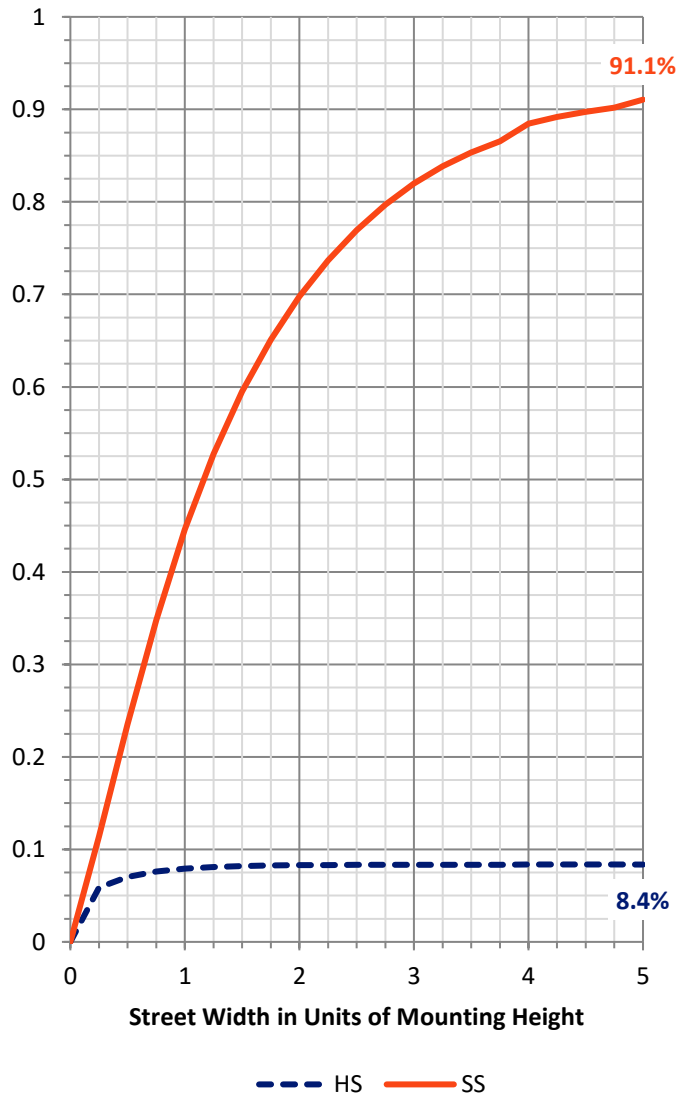
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4776.8	0.0	4776.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	51986.2	0.0	51986.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	56763.0	0.0	56763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.6	1.6
10°-20°	2175.2	3.8
20°-30°	3459.6	6.1
30°-40°	5201.1	9.2
40°-50°	7934.7	14.0
50°-60°	11214.3	19.8
60°-70°	14066.5	24.8
70°-80°	10517.8	18.5
80°-90°	1304.2	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°	56763.0	100.0
0°-180°	56763.0	100.0

Coefficient of Utilization



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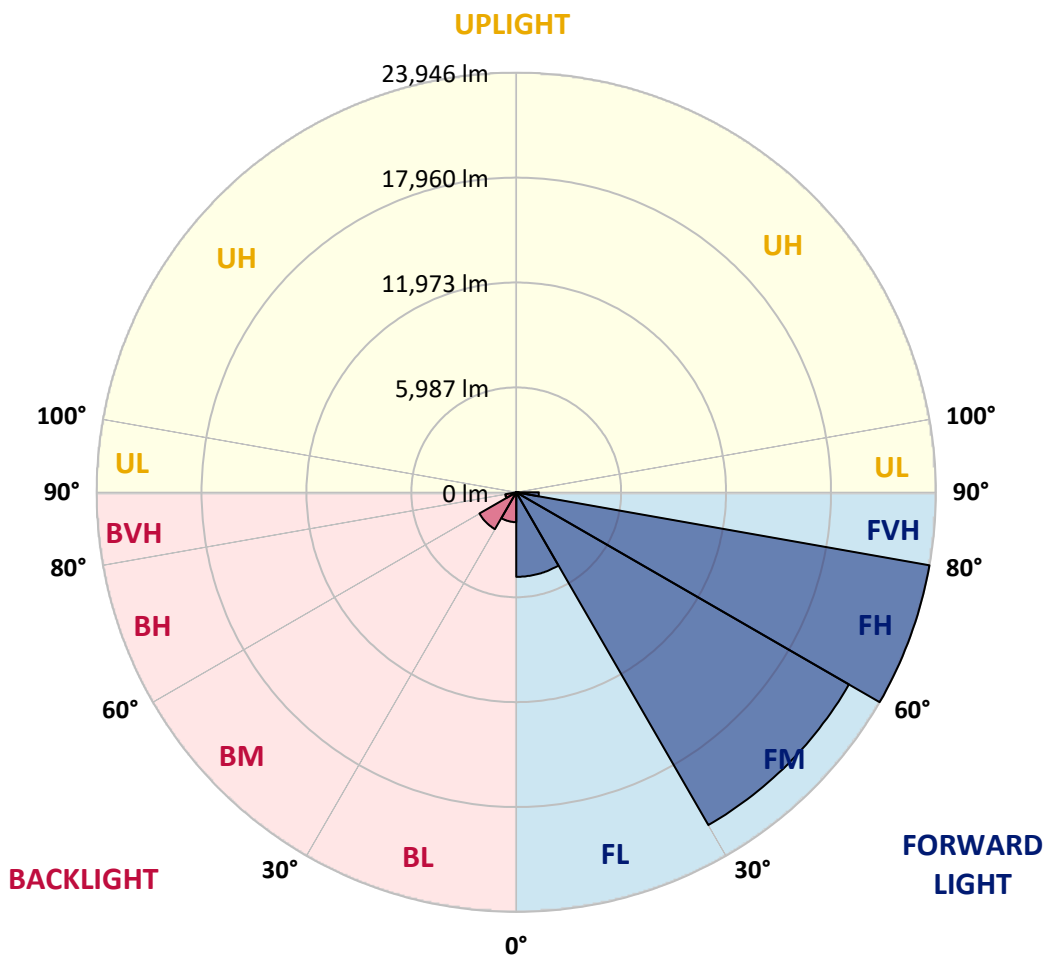
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4823.5	8.5			
FM (30°-60°)	21924.4	38.6			
FH (60°-80°)	23946.3	42.2			G5
FVH (80°-90°)	1292.0	2.3			G5
BL (0°-30°)	1700.8	3.0	B3/2500		
BM (30°-60°)	2425.7	4.3	B2/2500		
BH (60°-80°)	638.1	1.1	B2/1000		G2/1000
BVH (80°-90°)	12.2	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°	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5
2.5°	11079.7	11082.1	11056.2	11013.7	10959.5	10931.2	10884.1	10808.6	10728.5	10584.7	10429.1
5°	11306.0	11306.0	11273.0	11216.5	11129.2	11103.3	11013.7	10893.5	10728.5	10495.1	10233.4
7.5°	11282.5	11287.2	11242.4	11183.5	11096.2	11072.7	10964.2	10829.9	10624.8	10341.9	10007.1
10°	11159.9	11171.7	11136.3	11108.0	11027.9	11001.9	10900.6	10766.2	10561.1	10259.4	9875.1
12.5°	11034.9	11046.7	11058.5	11084.5	11034.9	11025.5	10945.4	10832.2	10636.5	10323.0	9889.3
15°	10954.8	10978.4	11063.2	11164.6	11176.4	11167.0	11115.1	11009.0	10811.0	10485.7	9990.6
17.5°	10954.8	10992.5	11169.3	11362.6	11431.0	11438.1	11393.3	11244.8	11009.0	10660.1	10084.9
20°	11046.7	11098.6	11374.4	11647.9	11761.0	11761.0	11673.8	11466.4	11190.5	10818.1	10148.6
22.5°	11282.5	11350.8	11697.4	12013.3	12133.5	12107.6	11989.7	11687.9	11379.1	10997.2	10228.7
25°	11746.9	11798.7	12159.4	12477.7	12550.8	12491.8	12343.3	11956.7	11619.6	11240.0	10374.9
27.5°	12345.7	12352.7	12725.2	12993.9	12949.2	12909.1	12722.8	12293.8	11966.1	11586.6	10627.1
30°	13003.4	13003.4	13331.0	13536.1	13399.4	13366.4	13180.2	12701.6	12409.3	12058.1	10985.4
32.5°	13639.9	13668.2	13934.5	14064.2	13911.0	13878.0	13696.4	13217.9	12998.7	12777.1	11544.1
35°	14255.1	14276.4	14528.6	14599.3	14453.2	14462.6	14332.9	13927.5	13845.0	13816.7	12385.7
37.5°	14851.6	14856.3	15113.2	15158.0	15084.9	15165.1	15176.9	14818.6	14971.8	15200.5	13571.5
40°	15396.1	15400.8	15655.4	15770.9	15895.9	15999.6	16091.6	15900.6	16407.4	16937.9	14983.6
42.5°	15832.2	15881.7	16204.7	16423.9	16754.0	16952.0	17201.9	17192.5	18116.6	18913.4	16690.3
45°	16216.5	16301.4	16751.6	17135.9	17701.7	18017.5	18408.9	18715.3	20040.2	21112.8	18418.3
47.5°	16723.3	16803.5	17317.4	17946.8	18701.2	19116.1	19764.4	20426.8	22154.8	23272.2	20106.2
50°	17437.6	17402.3	17909.1	18812.0	19780.9	20325.4	21249.5	22242.0	24252.8	25153.4	21098.7
52.5°	18199.1	18184.9	18559.7	19752.6	21053.9	21690.4	22911.5	24118.5	26259.0	26449.9	21553.6
55°	19142.0	19040.6	19356.5	20825.2	22564.9	23248.6	24686.6	25976.1	27857.3	27180.7	21782.3
57.5°	20129.8	19962.4	20264.1	22020.4	24269.3	25077.9	26652.7	27786.6	28920.5	27680.5	21779.9
60°	21150.5	20952.5	21310.8	23515.0	26386.3	27322.2	28783.7	29010.1	29912.9	27932.7	21619.6
62.5°	22003.9	21886.0	22418.8	25113.3	28750.7	29670.1	30393.8	30122.7	30749.8	28128.4	21244.8
65°	22906.8	22913.8	23774.3	26978.0	31263.7	31883.7	31945.0	31565.5	31450.0	28088.3	19976.5
67.5°	24127.9	24241.1	25676.7	29509.8	33708.3	34186.9	34182.2	33128.4	31961.5	26494.7	17164.2
70°	25419.8	25686.1	27869.1	32407.1	36376.9	36862.5	36612.6	34123.2	30094.5	21424.0	12147.6
72.5°	25202.9	25664.9	29087.9	34234.0	38293.5	38663.6	37039.3	31678.6	23786.1	12451.7	5172.1
75°	19443.8	19978.9	26671.5	32423.6	36282.6	35950.2	31824.8	24651.2	12998.7	3474.8	1164.6
77.5°	10271.2	10556.4	17619.1	24700.7	28291.1	27595.6	22418.8	13675.2	3962.8	860.4	523.3
80°	5379.6	5445.6	7678.0	14014.7	17461.2	17465.9	13286.3	6006.6	1633.7	440.8	351.3
82.5°	2880.7	2937.3	4057.1	6475.8	9149.0	8293.3	5087.3	3305.1	950.0	249.9	337.1
85°	693.1	704.9	2300.8	2958.5	3597.4	2569.6	1511.1	2774.6	257.0	146.2	273.5
87.5°	266.4	271.1	853.4	1280.1	917.0	594.1	707.2	1034.9	33.0	56.6	42.4
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°	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5	10438.5
2.5°	10334.8	10273.5	10122.6	9931.7	9762.0	9639.4	9455.5	9335.3	9255.1	9252.8	9222.1
5°	10073.1	9948.2	9622.9	9236.3	8885.0	8569.1	8196.6	7902.0	7682.7	7647.4	7571.9
7.5°	9792.6	9587.5	9087.7	8484.3	7894.9	7296.1	6600.7	6169.3	5799.2	5622.4	5603.5
10°	9620.5	9332.9	8623.3	7751.1	6827.0	5853.4	4943.4	4314.0	3859.0	3729.4	3632.7
12.5°	9585.2	9205.6	8265.0	7062.7	5742.6	4455.5	3448.9	2779.4	2416.3	2300.8	2270.2
15°	9620.5	9146.7	7963.3	6381.5	4644.1	3161.3	2315.0	1926.0	1789.3	1756.3	1753.9
17.5°	9641.7	9076.0	7621.4	5624.7	3578.5	2258.4	1772.8	1659.6	1638.4	1636.0	1640.7
20°	9639.4	8967.5	7213.6	4780.8	2661.5	1775.1	1603.0	1579.5	1574.7	1577.1	1574.7
22.5°	9622.9	8840.2	6765.7	3910.9	2010.9	1586.5	1529.9	1515.8	1513.4	1513.4	1513.4
25°	9653.5	8738.8	6273.0	3078.8	1657.2	1499.3	1463.9	1452.2	1449.8	1449.8	1445.1
27.5°	9764.3	8682.3	5733.2	2369.2	1496.9	1421.5	1393.2	1390.9	1383.8	1381.4	1386.1
30°	9943.5	8682.3	5141.5	1843.5	1400.3	1341.4	1320.1	1315.4	1313.1	1310.7	1313.1
32.5°	10259.4	8748.3	4495.5	1532.3	1308.4	1251.8	1237.6	1244.7	1237.6	1237.6	1237.6
35°	10829.9	8946.3	3819.0	1336.6	1211.7	1164.6	1150.4	1159.8	1155.1	1155.1	1152.8
37.5°	11662.0	9314.1	3137.7	1218.8	1126.8	1077.3	1058.5	1072.6	1067.9	1067.9	1065.5
40°	12675.7	9849.2	2489.4	1129.2	1044.3	992.5	976.0	983.0	971.2	971.2	976.0
42.5°	13927.5	10528.1	1923.6	1042.0	961.8	912.3	902.9	895.8	874.6	862.8	865.2
45°	15318.3	11235.3	1499.3	957.1	884.0	843.9	829.8	810.9	775.6	752.0	754.4
47.5°	16560.7	11779.9	1218.8	874.6	813.3	782.7	761.4	726.1	674.2	645.9	648.3
50°	17213.7	11862.4	1037.3	792.1	747.3	716.6	686.0	631.8	570.5	539.8	537.5
52.5°	17381.0	11475.8	902.9	716.6	681.3	645.9	605.8	532.8	464.4	431.4	426.7
55°	17442.3	10886.4	782.7	645.9	610.6	570.5	518.6	436.1	372.5	339.5	337.1
57.5°	17239.6	10007.1	688.4	582.3	539.8	490.3	426.7	348.9	287.6	261.7	261.7
60°	16789.3	8816.6	615.3	513.9	466.8	410.2	344.2	271.1	214.5	193.3	193.3
62.5°	15891.2	7274.9	546.9	443.2	398.4	339.5	278.2	205.1	150.9	139.1	141.4
65°	14196.2	5518.7	478.6	379.5	339.5	280.5	216.9	146.2	101.4	101.4	106.1
67.5°	11577.1	3833.1	407.8	323.0	292.3	228.7	165.0	101.4	70.7	80.2	89.6
70°	7663.9	2149.9	348.9	266.4	249.9	181.5	122.6	68.4	56.6	75.4	91.9
72.5°	2892.5	836.9	292.3	214.5	216.9	139.1	87.2	51.9	51.9	82.5	108.4
75°	806.2	410.2	209.8	157.9	169.7	101.4	63.6	44.8	49.5	94.3	127.3
77.5°	473.8	301.7	136.7	91.9	115.5	70.7	42.4	35.4	42.4	80.2	122.6
80°	381.9	160.3	80.2	47.1	63.6	40.1	28.3	21.2	11.8	30.6	63.6
82.5°	381.9	96.7	37.7	33.0	33.0	21.2	14.1	9.4	2.4	0.0	16.5
85°	257.0	40.1	23.6	21.2	16.5	7.1	4.7	2.4	0.0	0.0	0.0
87.5°	42.4	16.5	9.4	4.7	2.4	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)