

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: P319858

Luminaire Tested: **GAN-SA4D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24874 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

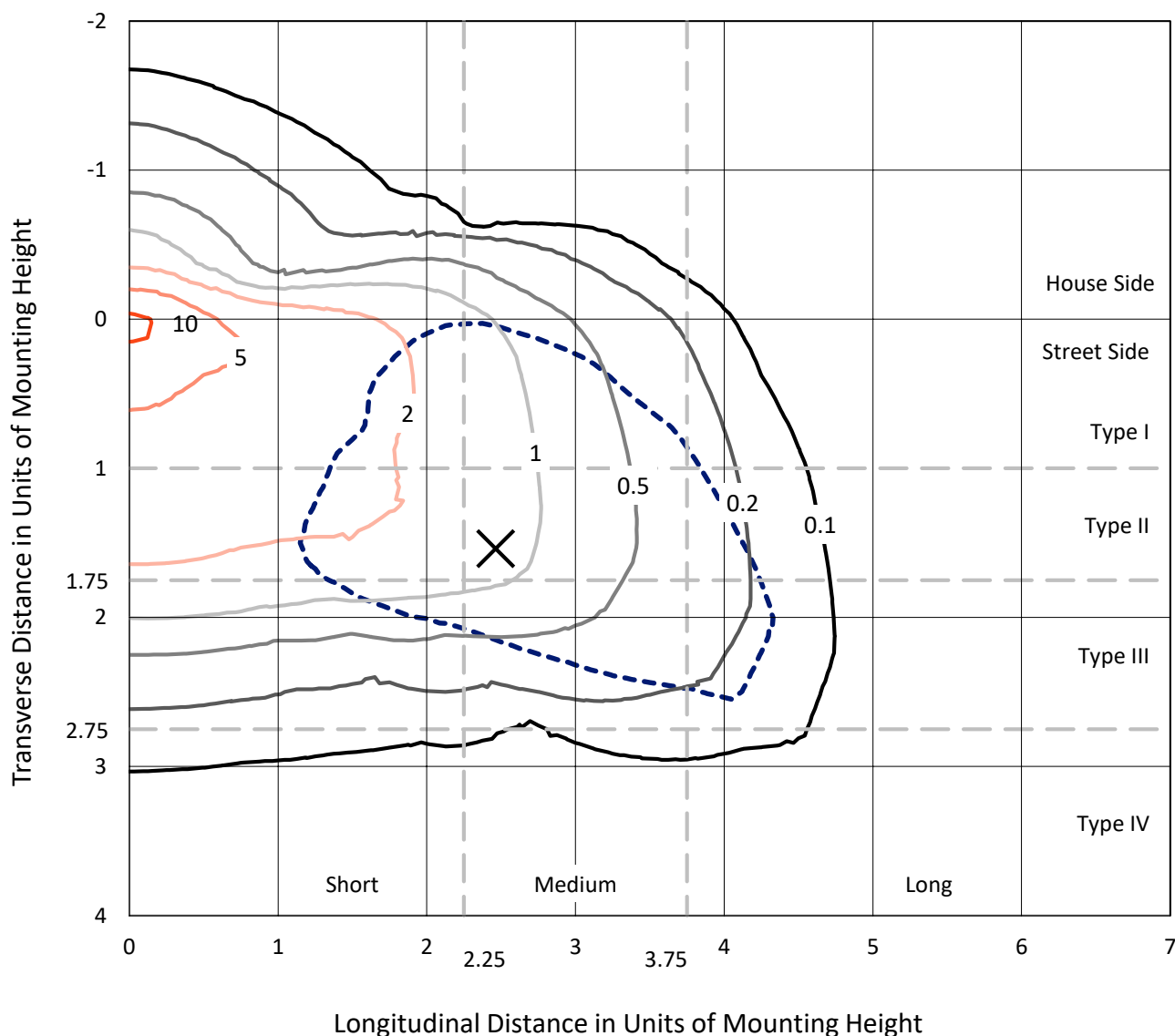


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

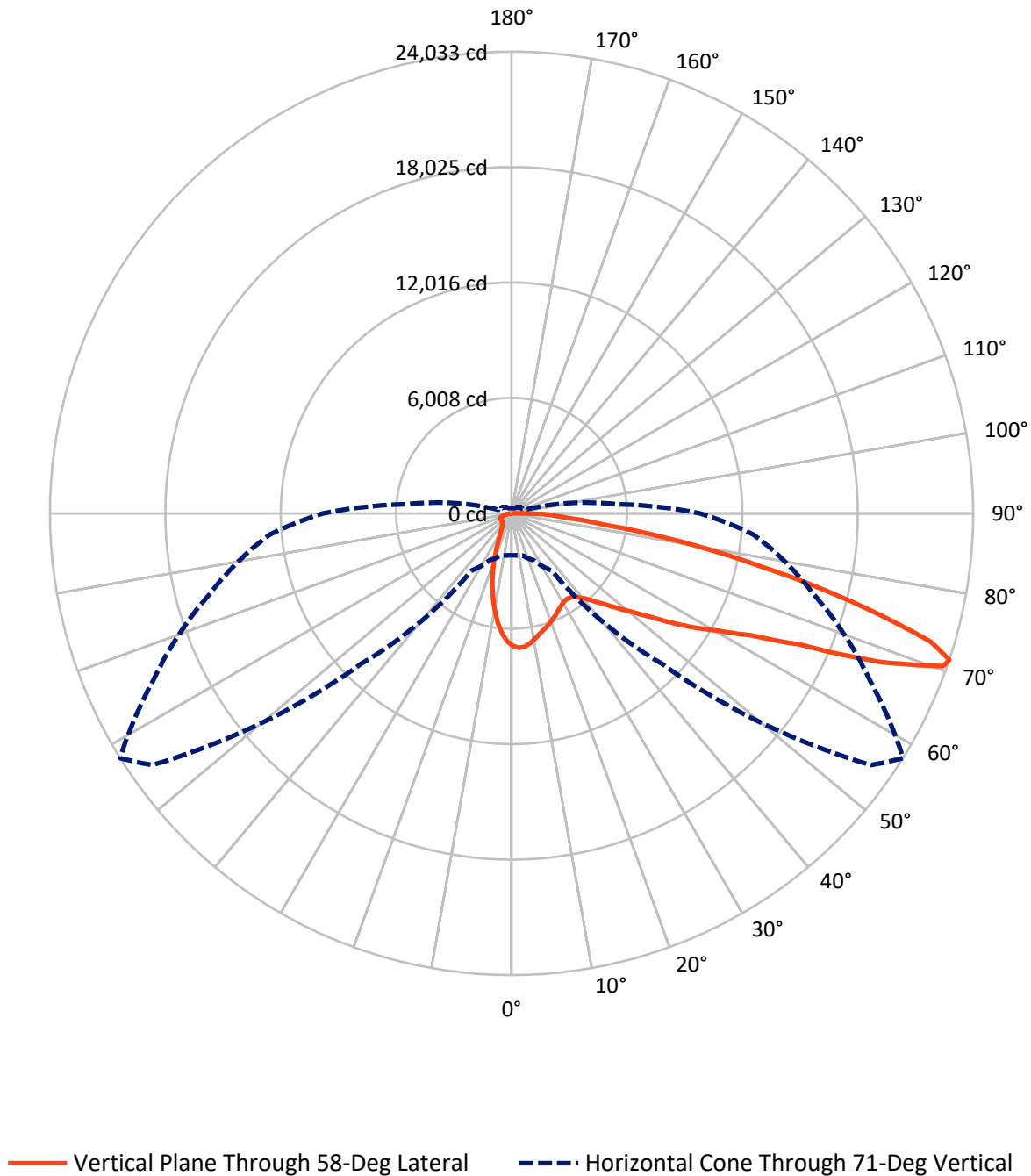
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.8	0.0	3718.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21155.2	0.0	21155.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	24874.0	0.0	24874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.6	2.4
10°-20°	1322.1	5.3
20°-30°	1680.2	6.8
30°-40°	2140.2	8.6
40°-50°	3035.0	12.2
50°-60°	4696.7	18.9
60°-70°	6394.0	25.7
70°-80°	4265.5	17.1
80°-90°	745.8	3.0
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°	24874.0	100.0
0°-180°	24874.0	100.0

Coefficient of Utilization



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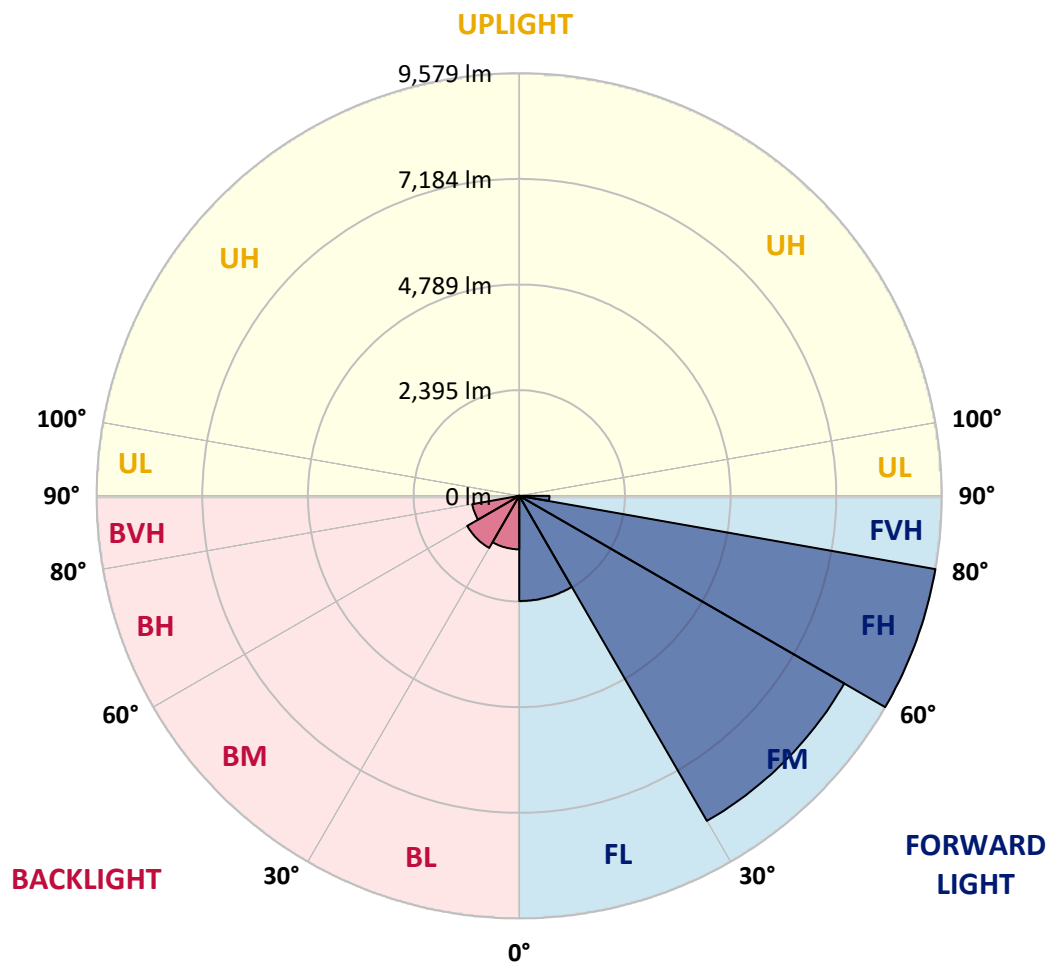
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2384.6	9.6			
FM	(30°-60°)	8508.1	34.2			
FH	(60°-80°)	9578.7	38.5			G4/12000
FVH	(80°-90°)	683.8	2.7			G4/750
BL	(0°-30°)	1212.2	4.9	B3/2500		
BM	(30°-60°)	1363.8	5.5	B2/2500		
BH	(60°-80°)	1080.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	62.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8
2.5°	7074.6	7065.1	7068.5	7061.6	7045.1	7028.7	7004.4	7008.7	6974.9	6924.7	6862.3
5°	6941.1	6937.7	6963.7	6978.4	6990.5	6981.0	6974.1	6982.7	6933.4	6864.0	6755.7
7.5°	6661.3	6623.2	6656.1	6705.5	6752.3	6787.8	6834.6	6840.6	6809.4	6736.7	6594.6
10°	6263.6	6227.2	6275.7	6352.8	6446.4	6531.3	6625.8	6643.1	6649.2	6583.3	6410.9
12.5°	5851.2	5823.4	5871.9	5980.3	6135.3	6266.2	6416.9	6442.9	6496.7	6452.5	6241.1
15°	5482.0	5471.6	5530.6	5637.1	5815.6	6015.8	6233.3	6280.9	6371.9	6357.2	6108.5
17.5°	5163.2	5160.6	5205.6	5317.4	5515.0	5768.0	6050.4	6131.0	6266.2	6283.5	5999.3
20°	4925.8	4920.6	4951.8	5034.1	5237.7	5524.5	5852.9	5963.8	6158.7	6219.4	5886.7
22.5°	4798.4	4797.5	4798.4	4837.4	5003.8	5270.6	5660.5	5795.7	6053.9	6168.3	5761.9
25°	4776.8	4774.2	4755.1	4750.8	4845.2	5058.3	5469.9	5618.9	5954.3	6132.7	5643.2
27.5°	4833.1	4836.5	4811.4	4770.7	4789.7	4918.8	5304.4	5463.8	5874.5	6125.8	5560.9
30°	4950.0	4948.3	4926.6	4884.2	4846.9	4866.9	5186.6	5346.0	5820.8	6156.1	5504.6
32.5°	5079.1	5088.7	5084.3	5060.9	5005.5	4925.8	5151.1	5307.0	5805.2	6228.9	5480.3
35°	5234.2	5244.6	5275.8	5294.0	5229.0	5100.8	5227.3	5362.5	5850.3	6365.8	5519.3
37.5°	5381.5	5408.4	5495.9	5573.0	5517.6	5374.6	5430.1	5526.2	5989.8	6581.6	5624.1
40°	5551.4	5574.8	5717.7	5881.5	5872.8	5724.6	5756.7	5820.8	6235.9	6890.9	5813.9
42.5°	5718.6	5765.4	5972.5	6204.7	6271.4	6140.5	6191.7	6225.5	6582.4	7300.7	6144.9
45°	5941.3	5991.5	6279.2	6559.0	6715.0	6641.4	6722.8	6735.8	7018.3	7858.7	6625.8
47.5°	6278.3	6335.5	6670.8	6964.5	7202.8	7210.6	7344.9	7339.7	7562.4	8497.3	7231.4
50°	6803.4	6885.7	7160.4	7435.0	7724.4	7885.6	8064.9	8039.8	8214.8	9177.5	7928.9
52.5°	7491.3	7529.5	7733.1	7935.8	8295.4	8656.7	8914.1	8891.5	8954.8	9876.7	8720.8
55°	8204.4	8233.0	8317.1	8428.0	8911.5	9500.6	10044.8	10009.3	9849.0	10602.8	9503.2
57.5°	8845.6	8903.7	8961.7	9007.6	9531.8	10382.7	11201.5	11204.1	10819.4	11386.0	10311.6
60°	8945.3	8996.4	9380.2	9742.4	10593.2	11559.3	12439.7	12413.7	11823.6	12236.0	11212.8
62.5°	7907.2	8022.5	8663.7	9627.2	11615.7	13711.6	14019.2	13987.1	13024.5	13283.6	12262.0
65°	5666.6	5797.4	6571.2	8019.0	11120.0	16083.1	16869.8	16438.3	14662.1	14572.0	13490.7
67.5°	3269.1	3300.3	3635.6	4798.4	8467.0	16207.0	21218.5	20614.6	17205.1	16033.7	14092.0
70°	2417.4	2416.5	2496.2	2952.9	4581.8	13227.3	23286.8	23828.3	19882.5	16514.6	13242.0
71°	2186.1	2188.7	2277.9	2687.7	3628.7	11071.5	22847.5	24032.8	20587.8	16277.2	12626.8
72.5°	1869.8	1878.5	2002.4	2410.5	3052.5	7635.2	20955.1	22805.9	20922.2	15691.4	11664.2
75°	1418.4	1438.3	1609.9	2031.8	2790.0	3872.2	15379.5	18211.1	18586.3	13845.9	8667.1
77.5°	1012.0	1034.5	1228.6	1708.6	2652.2	2918.2	10299.5	13283.6	13677.8	8873.3	3909.4
80°	639.4	666.3	812.7	1359.5	2491.9	2770.9	6472.4	8928.8	7458.4	2839.4	994.7
82.5°	375.2	396.0	504.3	888.1	2035.3	2668.7	3808.1	4949.2	2902.6	857.8	452.3
85°	217.5	227.0	314.5	565.8	1478.2	2518.8	2797.8	2766.6	1259.8	419.4	214.0
87.5°	101.4	112.6	186.3	295.5	820.5	1825.6	2211.2	1910.5	783.3	196.7	100.5
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°	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8	6891.8
2.5°	6832.0	6817.2	6755.7	6701.1	6644.0	6569.4	6487.1	6476.7	6426.5	6436.0	6418.7
5°	6696.8	6659.6	6511.4	6377.1	6218.5	6076.4	5922.2	5851.2	5748.9	5742.0	5716.0
7.5°	6503.6	6434.3	6204.7	5949.9	5695.2	5452.6	5212.6	5054.9	4893.7	4825.3	4819.2
10°	6286.1	6168.3	5830.4	5453.5	5086.1	4731.7	4388.6	4134.7	3906.0	3797.7	3793.3
12.5°	6079.9	5905.7	5442.2	4929.2	4426.7	3967.5	3497.0	3163.4	2876.6	2780.4	2739.7
15°	5904.9	5659.7	5064.4	4408.5	3798.5	3160.8	2625.4	2274.4	2009.3	1917.5	1900.1
17.5°	5735.0	5419.7	4677.1	3882.6	3145.2	2444.3	1907.9	1647.1	1505.9	1468.6	1467.8
20°	5566.1	5172.7	4272.5	3344.5	2513.6	1828.2	1466.9	1349.9	1302.3	1297.9	1291.0
22.5°	5374.6	4911.1	3847.0	2804.7	1961.6	1437.4	1246.8	1200.0	1194.0	1209.6	1209.6
25°	5195.2	4651.1	3415.6	2276.2	1525.8	1199.2	1113.4	1103.9	1120.3	1148.0	1150.6
27.5°	5028.0	4400.7	2994.5	1806.6	1222.6	1056.2	1020.7	1031.9	1061.4	1093.5	1094.3
30°	4890.3	4164.2	2585.5	1423.6	1032.8	949.6	943.6	966.1	998.2	1023.3	1029.3
32.5°	4783.7	3962.3	2190.4	1144.6	908.9	869.9	875.1	894.2	914.1	928.0	937.5
35°	4734.3	3789.0	1825.6	965.2	830.1	808.4	815.3	825.7	834.4	844.8	852.6
37.5°	4743.0	3654.7	1499.8	853.5	777.2	765.9	765.9	765.9	765.9	771.1	772.0
40°	4823.5	3577.6	1234.7	782.4	741.7	729.6	720.0	711.4	704.4	707.9	706.2
42.5°	5029.8	3570.6	1040.6	737.4	713.1	693.2	674.1	662.0	653.3	656.8	658.5
45°	5379.8	3657.3	909.8	705.3	686.2	655.9	631.6	618.6	612.6	623.8	625.6
47.5°	5833.0	3846.2	830.1	681.9	661.1	621.2	595.3	583.1	584.9	601.3	605.7
50°	6416.9	4152.9	791.9	667.2	643.8	591.8	564.9	554.5	559.7	583.1	588.3
52.5°	7058.1	4594.8	796.3	662.8	632.5	570.1	541.5	529.4	538.1	559.7	564.1
55°	7798.1	5125.9	868.2	668.9	616.0	556.3	522.5	501.7	508.6	528.5	532.0
57.5°	8620.3	5734.2	1012.9	667.2	595.3	543.3	502.5	471.3	476.5	488.7	492.1
60°	9476.4	6468.9	1237.3	672.4	585.7	527.7	475.7	436.7	435.0	445.4	447.1
62.5°	10504.0	7318.9	1493.8	675.8	591.8	507.7	440.2	402.0	396.8	399.4	401.2
65°	11562.8	7934.1	1397.6	662.0	610.8	491.3	409.0	368.2	358.7	357.0	357.8
67.5°	11595.7	7274.7	980.0	634.2	618.6	482.6	385.6	339.6	324.1	318.0	317.1
70°	10399.2	5910.1	763.3	604.8	587.5	468.8	363.9	316.3	292.9	283.3	282.5
71°	9815.2	5440.5	723.5	590.1	564.1	454.9	354.4	305.9	281.6	271.2	269.5
72.5°	8899.3	4877.3	675.0	566.7	519.0	419.4	336.2	291.1	266.0	253.9	251.3
75°	6386.6	3189.4	579.7	505.1	429.8	334.5	294.6	261.7	240.0	225.3	223.5
77.5°	2460.7	1269.4	438.4	420.2	329.3	261.7	242.6	226.1	210.5	195.8	195.0
80°	760.7	567.5	319.7	316.3	238.3	195.0	188.9	184.6	178.5	162.9	159.4
82.5°	406.4	325.8	220.1	204.5	156.0	130.0	136.9	138.6	139.5	123.0	121.3
85°	194.1	172.4	123.9	116.1	91.0	72.8	84.0	91.0	91.8	75.4	70.2
87.5°	92.7	90.1	58.1	44.2	33.8	24.3	29.5	36.4	39.9	28.6	25.1
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)