

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: P320128

Luminaire Tested: **GAN-SA4C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19931 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 225
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

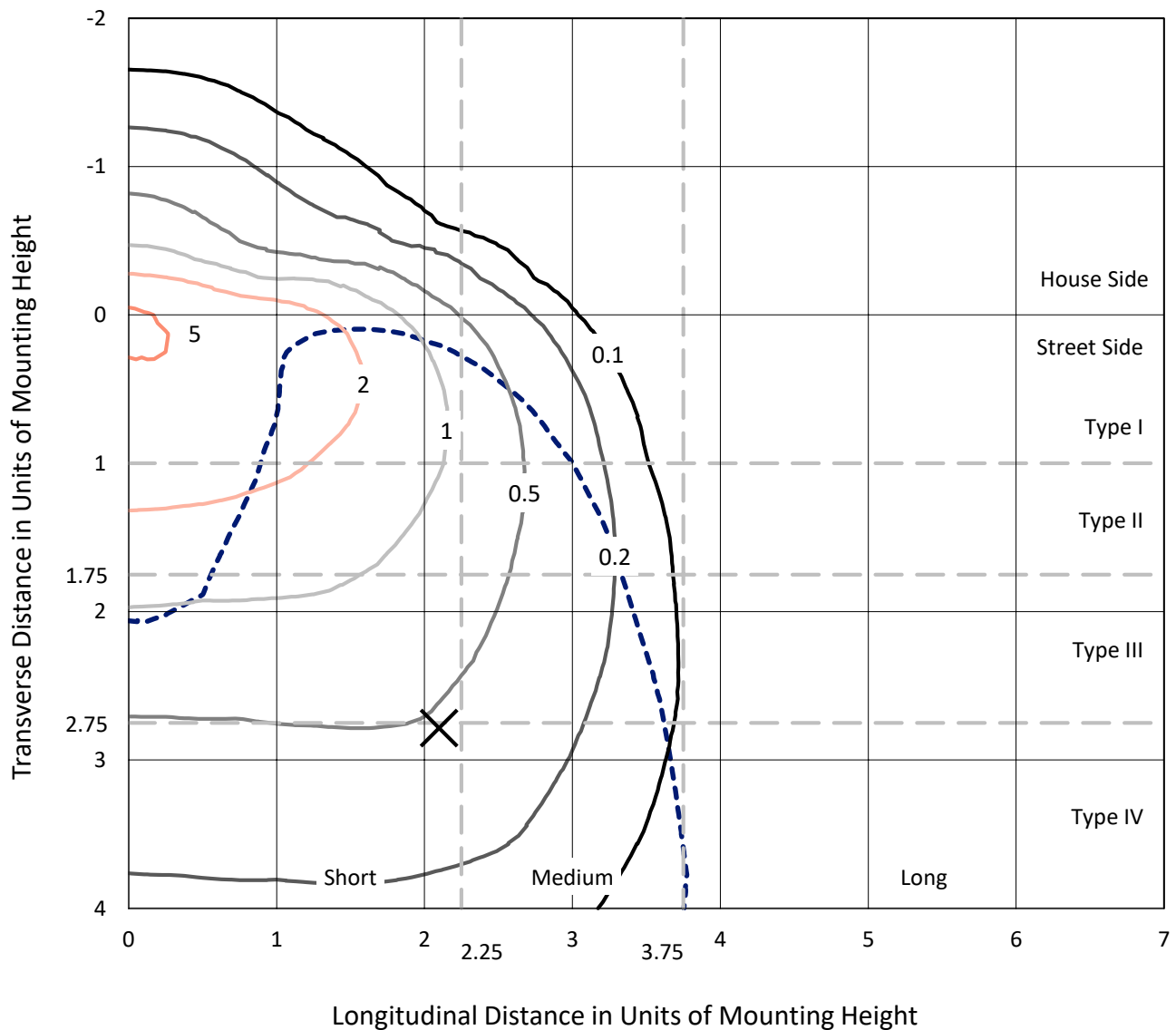


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Iso-Footcandle Lines of Horizontal Illumination

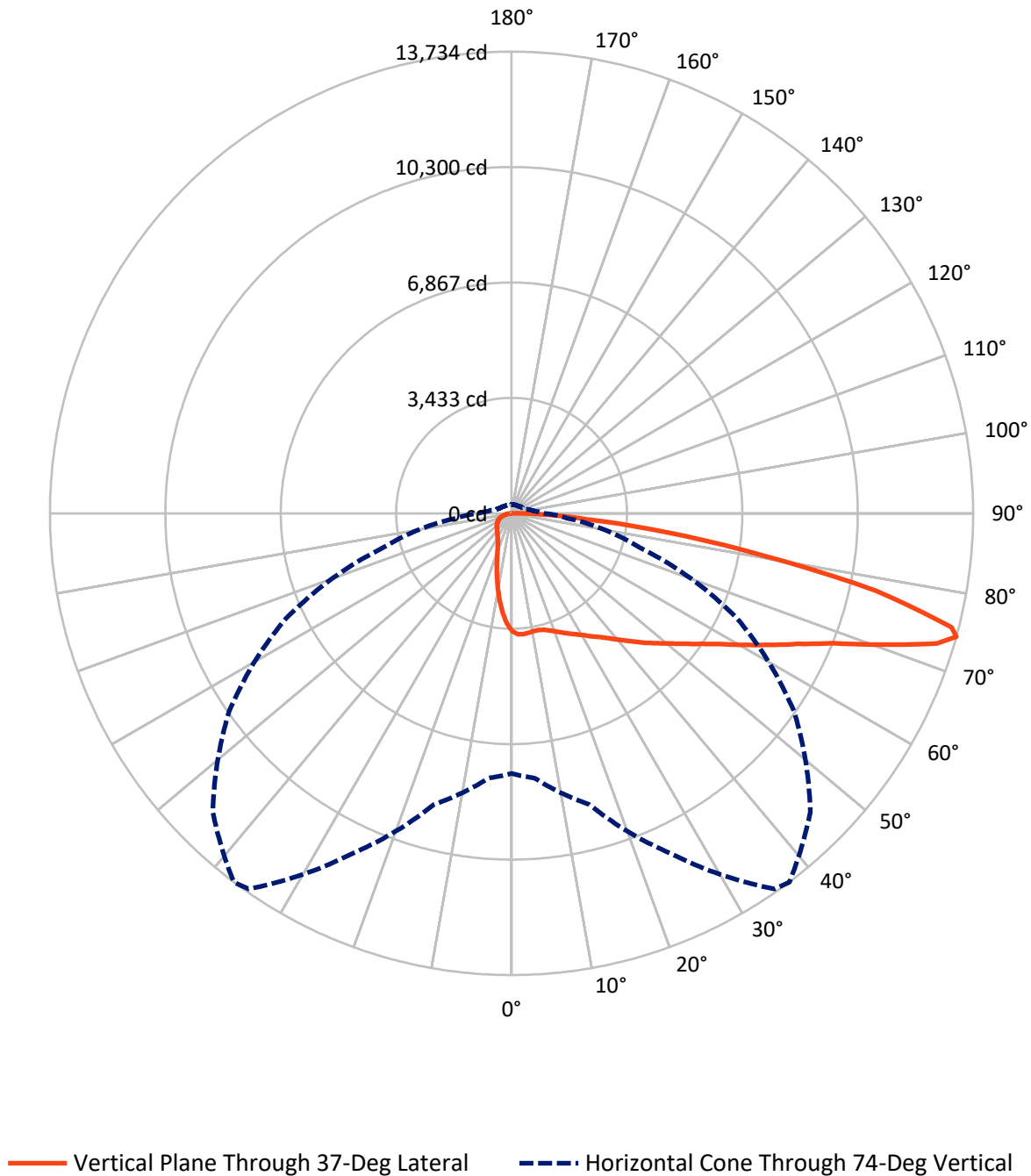
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2742.4	0.0	2742.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17188.6	0.0	17188.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	19931.0	0.0	19931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	1.6
10°-20°	792.7	4.0
20°-30°	1221.4	6.1
30°-40°	1776.1	8.9
40°-50°	2614.1	13.1
50°-60°	3671.0	18.4
60°-70°	4646.3	23.3
70°-80°	4091.3	20.5
80°-90°	808.9	4.1
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°	19931.0	100.0
0°-180°	19931.0	100.0

Coefficient of Utilization



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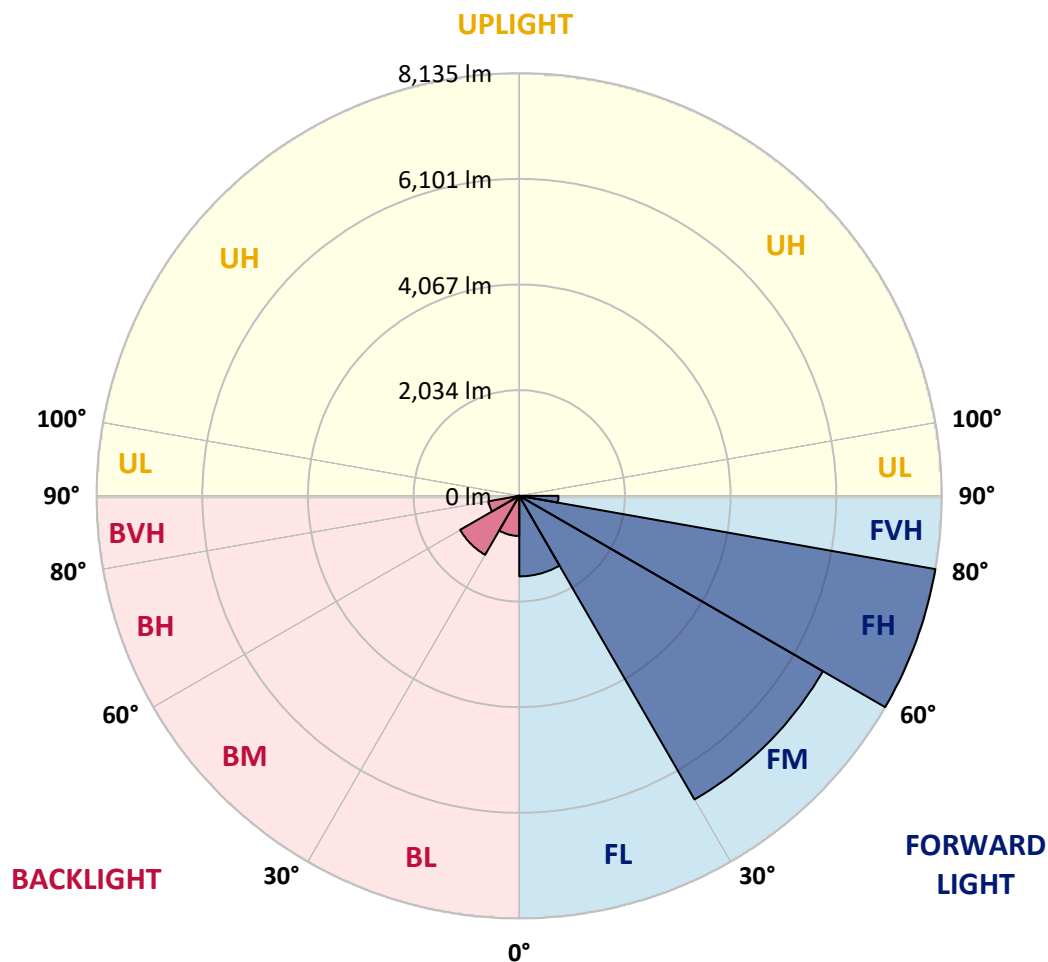
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.9	7.8			
FM	(30°-60°)	6748.8	33.9			
FH	(60°-80°)	8134.8	40.8			G4/12000
FVH	(80°-90°)	754.2	3.8			G5
BL	(0°-30°)	772.5	3.9	B2/1000		
BM	(30°-60°)	1312.3	6.6	B2/2500		
BH	(60°-80°)	602.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	54.8	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8
2.5°	3631.8	3632.5	3631.8	3626.2	3612.9	3601.6	3592.5	3579.2	3549.7	3527.2	3493.5
5°	3666.2	3662.0	3659.2	3648.7	3627.6	3615.0	3597.4	3572.1	3523.7	3478.8	3424.0
7.5°	3650.1	3645.2	3638.8	3626.2	3602.3	3591.8	3567.2	3534.2	3476.0	3417.0	3338.4
10°	3600.2	3598.8	3596.0	3593.2	3572.8	3564.4	3542.0	3506.9	3449.3	3377.7	3285.7
12.5°	3544.8	3548.3	3559.5	3574.2	3565.1	3560.9	3546.9	3523.0	3464.0	3386.8	3275.9
15°	3509.7	3519.5	3549.7	3588.3	3596.0	3594.6	3591.1	3575.7	3513.2	3427.5	3298.3
17.5°	3497.7	3513.9	3571.4	3635.3	3657.8	3662.7	3664.1	3637.4	3567.9	3477.4	3321.5
20°	3519.5	3539.8	3624.1	3711.9	3747.7	3750.5	3744.2	3697.8	3619.9	3520.2	3334.1
22.5°	3585.5	3603.7	3709.0	3808.0	3848.8	3853.0	3834.0	3763.8	3674.6	3570.7	3351.7
25°	3712.6	3735.0	3840.3	3939.3	3960.4	3961.1	3933.7	3846.7	3746.3	3641.6	3389.6
27.5°	3878.2	3900.7	3995.5	4092.4	4081.1	4074.8	4037.6	3950.6	3839.6	3739.2	3457.0
30°	4062.9	4087.5	4177.3	4246.1	4219.5	4206.8	4176.6	4064.3	3969.5	3872.6	3560.2
32.5°	4253.9	4276.3	4355.0	4402.0	4368.3	4362.7	4317.0	4214.5	4138.7	4076.2	3727.3
35°	4449.7	4465.9	4543.1	4569.8	4524.9	4523.5	4510.8	4416.7	4369.0	4398.5	3970.2
37.5°	4649.8	4654.0	4720.0	4721.4	4708.1	4713.7	4727.1	4668.1	4681.4	4773.4	4286.2
40°	4828.2	4839.4	4887.1	4901.9	4925.0	4944.7	5011.4	4972.8	5076.0	5238.9	4679.3
42.5°	4960.1	4981.9	5058.4	5096.3	5171.5	5202.4	5296.4	5332.2	5540.1	5784.4	5146.9
45°	5071.8	5105.5	5228.3	5306.3	5433.3	5487.4	5622.2	5742.2	6064.5	6376.2	5639.0
47.5°	5192.5	5235.4	5389.1	5537.9	5710.7	5771.7	6016.8	6196.5	6624.1	6971.6	6103.1
50°	5370.1	5403.1	5553.4	5787.2	6002.7	6081.3	6420.4	6678.1	7192.7	7538.9	6505.4
52.5°	5618.0	5605.3	5732.4	6060.3	6349.5	6446.4	6851.5	7190.6	7769.1	8052.1	6845.2
55°	5867.2	5846.2	5935.3	6346.0	6753.9	6855.7	7326.1	7705.2	8317.4	8514.0	7105.7
57.5°	6144.5	6104.5	6179.6	6668.3	7214.5	7336.0	7857.6	8252.2	8856.6	8887.5	7271.4
60°	6430.3	6376.2	6460.5	7067.8	7799.3	7942.5	8479.6	8785.7	9364.9	9186.6	7324.7
62.5°	6680.2	6642.3	6772.2	7513.6	8458.6	8615.8	9090.4	9353.0	9866.2	9310.9	7132.4
65°	6898.6	6904.9	7129.5	8014.9	9193.6	9361.4	9791.1	10052.3	10260.8	9237.2	6682.3
67.5°	7159.0	7194.8	7578.2	8674.8	10119.0	10302.9	10810.5	10814.7	10481.2	8804.7	5796.3
70°	7538.9	7612.6	8195.3	9590.3	11434.6	11687.4	12079.2	11262.6	10171.6	7632.2	4560.7
72.5°	7875.8	8013.5	8851.7	10637.8	13038.2	13229.8	12821.2	11004.3	8877.7	5719.8	2841.3
74°	7738.9	7909.5	8971.1	11153.8	13642.0	13733.9	12570.6	10250.3	7401.9	3961.1	1651.3
75°	7444.1	7629.4	8797.0	11148.9	13565.4	13514.2	11965.4	9388.8	6096.1	2701.6	1098.7
77.5°	6007.6	6203.5	7412.5	9555.2	11122.9	11074.5	9191.5	6298.3	2670.0	886.0	558.1
80°	3492.8	3642.4	4601.4	6068.0	7500.2	7588.0	6044.8	3116.5	1050.3	497.8	378.4
82.5°	1551.6	1654.8	2222.8	3097.5	4526.3	4639.3	3165.6	1633.0	648.7	302.6	227.5
85°	1018.0	1094.5	1349.4	1475.1	2155.4	2232.6	1549.5	1271.5	428.3	166.4	167.1
87.5°	732.3	806.0	1002.6	875.5	989.2	936.6	843.2	1176.7	172.0	94.8	56.2
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°	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8	3511.8
2.5°	3478.8	3467.5	3442.3	3394.5	3367.8	3345.4	3308.2	3286.4	3276.6	3275.9	3280.1
5°	3392.4	3366.4	3301.1	3221.1	3157.2	3098.9	3026.6	2983.1	2952.2	2934.0	2938.9
7.5°	3292.0	3251.3	3148.8	3021.0	2918.5	2805.5	2693.9	2627.2	2575.2	2536.6	2543.6
10°	3223.2	3167.0	3017.5	2833.6	2663.0	2498.7	2344.9	2252.9	2179.9	2123.8	2128.0
12.5°	3200.0	3124.2	2917.1	2671.4	2432.0	2207.3	2006.5	1865.4	1790.3	1726.4	1731.3
15°	3203.6	3101.8	2832.9	2525.4	2224.2	1941.2	1697.6	1532.6	1430.8	1386.6	1387.3
17.5°	3206.4	3075.8	2744.4	2368.8	2018.5	1692.7	1428.0	1260.9	1164.7	1124.0	1124.7
20°	3197.2	3033.7	2634.9	2189.1	1803.6	1464.5	1208.3	1066.4	993.4	961.8	961.8
22.5°	3185.3	2983.8	2511.3	2008.6	1591.6	1266.5	1051.0	942.9	900.8	879.7	879.0
25°	3190.9	2946.6	2384.9	1823.3	1396.4	1108.6	946.4	874.8	846.7	833.4	832.7
27.5°	3221.1	2929.0	2268.4	1638.6	1225.8	989.9	876.2	825.6	807.4	799.0	799.0
30°	3275.9	2929.0	2146.9	1481.4	1084.0	902.2	822.1	787.7	775.1	769.5	769.5
32.5°	3371.4	2945.2	2029.7	1325.5	971.0	833.4	777.2	754.0	744.2	741.4	741.4
35°	3535.6	3000.0	1915.3	1178.1	879.7	777.2	734.4	721.0	714.0	713.3	715.4
37.5°	3766.6	3111.6	1807.8	1069.3	815.1	731.6	698.6	688.0	683.8	687.3	690.1
40°	4057.3	3263.2	1710.2	971.0	766.0	695.1	665.6	658.5	656.4	661.4	665.6
42.5°	4408.3	3468.2	1630.2	900.1	728.0	664.2	637.5	629.1	627.0	632.6	638.2
45°	4788.1	3688.7	1574.0	847.4	698.6	641.0	612.9	603.8	599.6	602.4	608.7
47.5°	5133.6	3897.2	1551.6	810.2	670.5	621.3	591.1	579.9	572.9	571.5	576.4
50°	5424.9	4052.4	1562.1	787.7	648.0	599.6	570.1	557.4	546.9	540.6	544.1
52.5°	5636.9	4149.9	1571.9	777.9	630.5	575.7	546.9	535.0	520.9	510.4	510.4
55°	5790.7	4172.4	1550.2	770.2	617.1	549.7	520.9	509.7	495.7	483.7	482.3
57.5°	5851.1	4109.2	1469.4	758.9	608.0	525.1	493.6	485.1	473.2	459.2	458.5
60°	5769.6	3914.1	1313.6	735.1	596.1	504.8	466.2	460.6	454.9	441.6	440.9
62.5°	5442.5	3485.8	1112.1	686.6	572.2	483.0	440.9	443.7	444.4	435.3	433.9
65°	4849.2	2897.5	915.5	623.4	536.4	457.0	414.9	428.3	436.0	434.6	432.5
67.5°	3987.1	2255.1	775.8	556.7	489.3	421.2	386.8	402.3	408.6	413.5	412.1
70°	2959.2	1590.2	641.7	486.5	432.5	379.1	350.3	358.1	353.8	359.5	361.6
72.5°	1649.9	954.1	523.0	416.3	373.5	330.0	309.6	308.2	299.1	299.1	299.1
74°	989.9	700.0	459.9	372.8	337.7	297.7	280.1	273.8	265.4	266.1	265.4
75°	796.1	601.7	421.9	344.0	312.4	278.7	261.2	252.7	246.4	246.4	245.7
77.5°	502.7	457.0	339.8	273.8	249.9	229.6	217.6	206.4	206.4	205.7	205.0
80°	379.8	363.7	264.7	207.1	191.7	176.2	168.5	163.6	163.6	165.7	165.0
82.5°	260.5	273.8	186.0	144.6	136.9	125.7	124.3	125.0	122.9	120.1	119.4
85°	190.3	205.7	125.7	91.3	83.5	76.5	82.1	85.0	81.4	75.1	72.3
87.5°	73.0	134.8	67.4	37.9	35.1	30.2	35.1	36.5	39.3	30.9	31.6
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)