

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: P324014

Luminaire Tested: **GAN-SA0C-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324014
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-SA0C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA 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: 45152 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

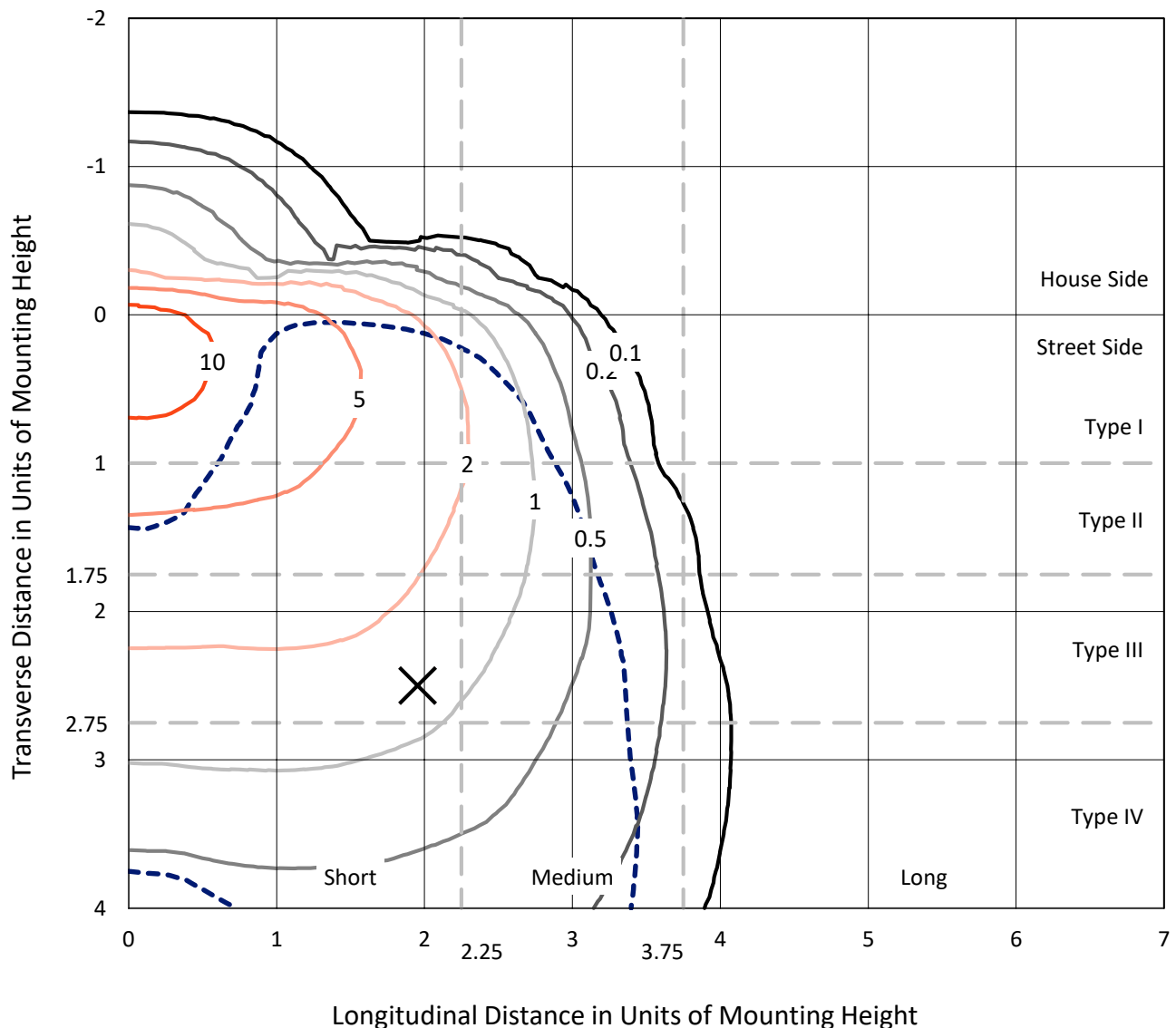
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

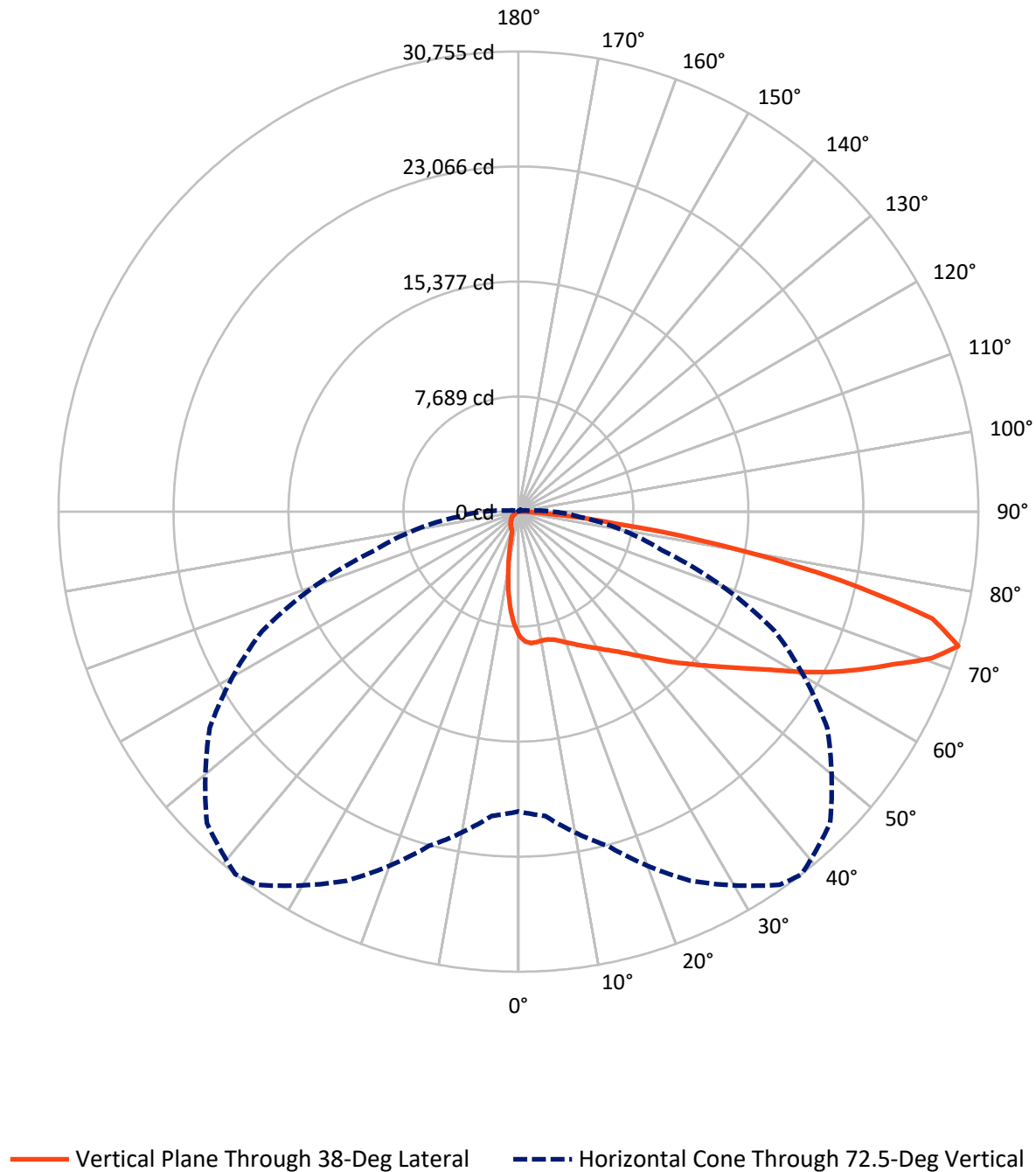
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	3799.7	0.0	3799.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	41352.3	0.0	41352.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	45152.0	0.0	45152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.6	1.6
10°-20°	1730.2	3.8
20°-30°	2751.9	6.1
30°-40°	4137.2	9.2
40°-50°	6311.6	14.0
50°-60°	8920.4	19.8
60°-70°	11189.2	24.8
70°-80°	8366.4	18.5
80°-90°	1037.4	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°	45152.0	100.0
0°-180°	45152.0	100.0

Coefficient of Utilization



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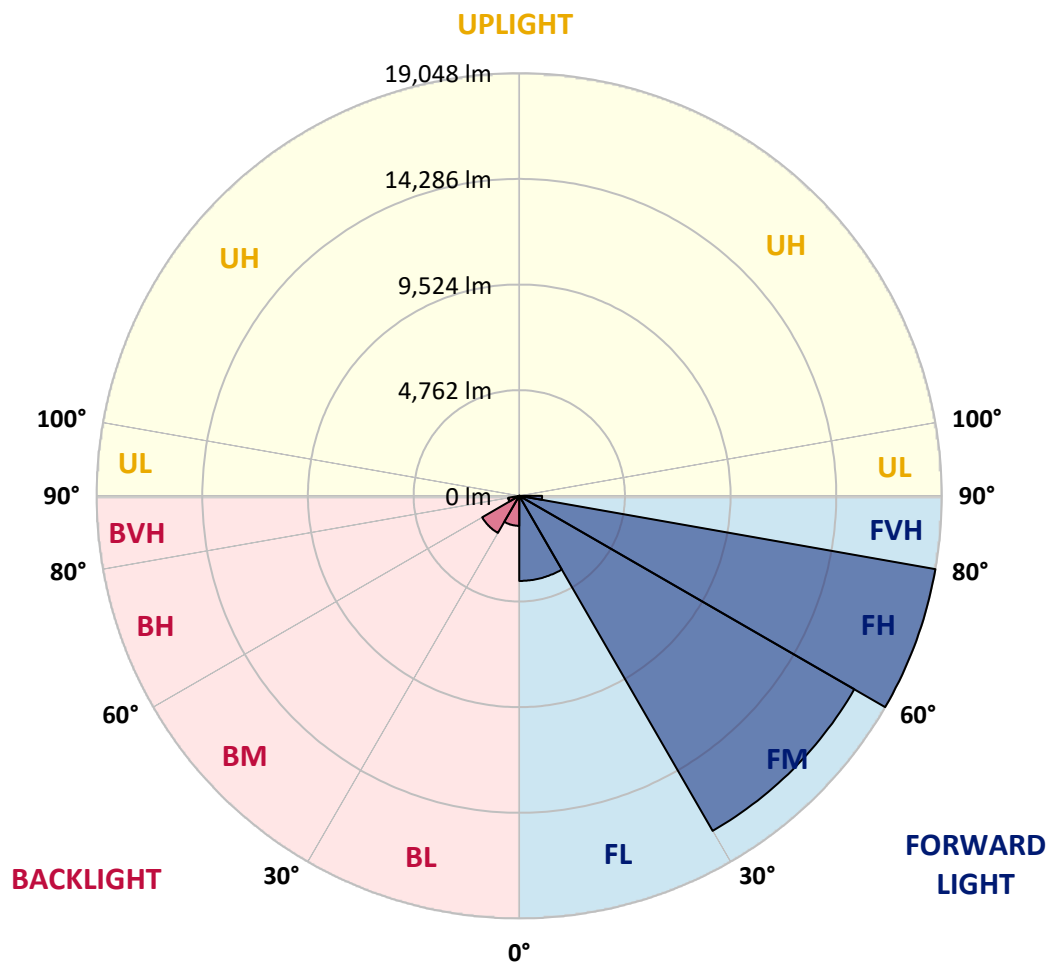
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3836.8	8.5			
FM	(30°-60°)	17439.7	38.6			
FH	(60°-80°)	19048.0	42.2			G5
FVH	(80°-90°)	1027.7	2.3			G5
BL	(0°-30°)	1352.9	3.0	B3/2500		
BM	(30°-60°)	1929.5	4.3	B2/2500		
BH	(60°-80°)	507.6	1.1	B2/1000		G2/1000
BVH	(80°-90°)	9.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3
2.5°	8813.4	8815.2	8794.6	8760.8	8717.7	8695.2	8657.7	8597.7	8534.0	8419.6	8295.8
5°	8993.4	8993.4	8967.1	8922.1	8852.7	8832.1	8760.8	8665.2	8534.0	8348.3	8140.2
7.5°	8974.6	8978.4	8942.7	8895.9	8826.5	8807.7	8721.5	8614.6	8451.4	8226.4	7960.1
10°	8877.1	8886.5	8858.4	8835.9	8772.1	8751.5	8670.8	8564.0	8400.8	8160.8	7855.1
12.5°	8777.7	8787.1	8796.5	8817.1	8777.7	8770.2	8706.5	8616.5	8460.8	8211.4	7866.4
15°	8714.0	8732.7	8800.2	8880.9	8890.2	8882.7	8841.5	8757.1	8599.6	8340.8	7947.0
17.5°	8714.0	8744.0	8884.6	9038.4	9092.8	9098.4	9062.8	8944.6	8757.1	8479.6	8022.0
20°	8787.1	8828.4	9047.8	9265.3	9355.3	9355.3	9285.9	9120.9	8901.5	8605.2	8072.7
22.5°	8974.6	9029.0	9304.7	9555.9	9651.6	9630.9	9537.2	9297.2	9051.5	8747.7	8136.4
25°	9344.0	9385.3	9672.2	9925.3	9983.5	9936.6	9818.5	9510.9	9242.8	8940.9	8252.7
27.5°	9820.3	9826.0	10122.2	10336.0	10300.4	10268.5	10120.4	9779.1	9518.4	9216.5	8453.3
30°	10343.5	10343.5	10604.2	10767.3	10658.5	10632.3	10484.1	10103.5	9871.0	9591.6	8738.3
32.5°	10849.8	10872.3	11084.2	11187.3	11065.4	11039.2	10894.8	10514.1	10339.8	10163.5	9182.8
35°	11339.2	11356.1	11556.7	11613.0	11496.7	11504.2	11401.1	11078.6	11012.9	10990.4	9852.2
37.5°	11813.6	11817.4	12021.8	12057.4	11999.3	12063.0	12072.4	11787.4	11909.3	12091.2	10795.4
40°	12246.8	12250.6	12453.1	12545.0	12644.3	12726.9	12800.0	12648.1	13051.3	13473.2	11918.7
42.5°	12593.7	12633.1	12890.0	13064.4	13326.9	13484.4	13683.2	13675.7	14410.8	15044.6	13276.3
45°	12899.4	12966.9	13325.0	13630.7	14080.7	14332.0	14643.3	14887.1	15940.9	16794.1	14650.8
47.5°	13302.5	13366.3	13775.1	14275.8	14875.8	15205.8	15721.5	16248.4	17623.0	18511.8	15993.4
50°	13870.7	13842.6	14245.8	14963.9	15734.6	16167.8	16902.9	17692.3	19291.9	20008.2	16782.9
52.5°	14476.4	14465.2	14763.3	15712.1	16747.2	17253.5	18224.9	19185.0	20887.6	21039.5	17144.8
55°	15226.5	15145.8	15397.1	16565.4	17949.2	18493.0	19636.9	20662.6	22159.0	21620.8	17326.7
57.5°	16012.2	15879.0	16119.1	17516.1	19305.0	19948.2	21200.8	22102.8	23004.7	22018.4	17324.8
60°	16824.1	16666.6	16951.6	18704.9	20988.9	21733.4	22896.0	23076.0	23794.2	22219.0	17197.3
62.5°	17502.9	17409.2	17833.0	19976.3	22869.7	23601.0	24176.7	23961.1	24459.9	22374.7	16899.1
65°	18221.1	18226.8	18911.2	21459.6	24868.7	25361.8	25410.6	25108.7	25016.8	22342.8	15890.3
67.5°	19192.5	19282.5	20424.5	23473.5	26813.2	27193.9	27190.1	26351.9	25423.7	21075.2	13653.2
70°	20220.1	20432.0	22168.4	25778.1	28935.9	29322.2	29123.4	27143.3	23938.6	17041.7	9662.8
72.5°	20047.6	20415.1	23137.9	27231.4	30460.4	30754.9	29462.9	25198.7	18920.6	9904.7	4114.1
75°	15466.5	15892.2	21215.8	25791.2	28860.9	28596.5	25315.0	19608.8	10339.8	2764.0	926.3
77.5°	8170.2	8397.1	14015.1	19648.2	22504.1	21950.9	17833.0	10877.9	3152.2	684.4	416.3
80°	4279.2	4331.7	6107.5	11148.0	13889.5	13893.2	10568.5	4778.0	1299.5	350.7	279.4
82.5°	2291.5	2336.5	3227.2	5151.1	7277.6	6596.9	4046.6	2629.0	755.7	198.8	268.2
85°	551.3	560.7	1830.2	2353.4	2861.5	2043.9	1202.0	2207.1	204.4	116.3	217.5
87.5°	211.9	215.6	678.8	1018.2	729.4	472.5	562.6	823.2	26.3	45.0	33.8
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°	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3	8303.3
2.5°	8220.8	8172.0	8052.0	7900.1	7765.1	7667.6	7521.4	7425.7	7362.0	7360.1	7335.7
5°	8012.7	7913.3	7654.5	7347.0	7067.6	6816.3	6520.0	6285.6	6111.2	6083.1	6023.1
7.5°	7789.5	7626.4	7228.8	6748.8	6280.0	5803.7	5250.5	4907.4	4612.9	4472.3	4457.3
10°	7652.6	7423.8	6859.4	6165.6	5430.5	4656.1	3932.3	3431.6	3069.7	2966.5	2889.7
12.5°	7624.5	7322.6	6574.4	5618.0	4567.9	3544.1	2743.4	2210.8	1922.1	1830.2	1805.8
15°	7652.6	7275.7	6334.4	5076.1	3694.1	2514.6	1841.4	1532.0	1423.3	1397.0	1395.1
17.5°	7669.5	7219.4	6062.5	4474.2	2846.5	1796.4	1410.1	1320.1	1303.3	1301.4	1305.1
20°	7667.6	7133.2	5738.1	3802.9	2117.1	1412.0	1275.1	1256.4	1252.6	1254.5	1252.6
22.5°	7654.5	7031.9	5381.8	3110.9	1599.5	1262.0	1217.0	1205.7	1203.9	1203.9	1203.9
25°	7678.9	6951.3	4989.9	2449.0	1318.3	1192.6	1164.5	1155.1	1153.2	1153.2	1149.5
27.5°	7767.0	6906.3	4560.4	1884.6	1190.7	1130.7	1108.2	1106.4	1100.7	1098.9	1102.6
30°	7909.5	6906.3	4089.8	1466.4	1113.9	1067.0	1050.1	1046.4	1044.5	1042.6	1044.5
32.5°	8160.8	6958.8	3576.0	1218.9	1040.7	995.7	984.5	990.1	984.5	984.5	984.5
35°	8614.6	7116.3	3037.8	1063.2	963.8	926.3	915.1	922.6	918.8	918.8	917.0
37.5°	9276.5	7408.8	2495.9	969.5	896.3	857.0	842.0	853.2	849.5	849.5	847.6
40°	10082.9	7834.5	1980.2	898.2	830.7	789.5	776.3	782.0	772.6	772.6	776.3
42.5°	11078.6	8374.6	1530.1	828.8	765.1	725.7	718.2	712.6	695.7	686.3	688.2
45°	12184.9	8937.1	1192.6	761.3	703.2	671.3	660.1	645.1	616.9	598.2	600.1
47.5°	13173.2	9370.3	969.5	695.7	646.9	622.6	605.7	577.6	536.3	513.8	515.7
50°	13692.6	9435.9	825.1	630.1	594.4	570.1	545.7	502.5	453.8	429.4	427.5
52.5°	13825.7	9128.4	718.2	570.1	541.9	513.8	481.9	423.8	369.4	343.2	339.4
55°	13874.5	8659.6	622.6	513.8	485.7	453.8	412.5	346.9	296.3	270.0	268.2
57.5°	13713.2	7960.1	547.6	463.2	429.4	390.0	339.4	277.5	228.8	208.1	208.1
60°	13355.0	7013.2	489.4	408.8	371.3	326.3	273.8	215.6	170.6	153.8	153.8
62.5°	12640.6	5786.8	435.0	352.5	316.9	270.0	221.3	163.1	120.0	110.6	112.5
65°	11292.3	4389.8	380.7	301.9	270.0	223.1	172.5	116.3	80.6	80.6	84.4
67.5°	9209.0	3049.0	324.4	256.9	232.5	181.9	131.3	80.6	56.3	63.8	71.3
70°	6096.2	1710.2	277.5	211.9	198.8	144.4	97.5	54.4	45.0	60.0	73.1
72.5°	2300.8	665.7	232.5	170.6	172.5	110.6	69.4	41.3	41.3	65.6	86.3
75°	641.3	326.3	166.9	125.6	135.0	80.6	50.6	35.6	39.4	75.0	101.3
77.5°	376.9	240.0	108.8	73.1	91.9	56.3	33.8	28.1	33.8	63.8	97.5
80°	303.8	127.5	63.8	37.5	50.6	31.9	22.5	16.9	9.4	24.4	50.6
82.5°	303.8	76.9	30.0	26.3	26.3	16.9	11.3	7.5	1.9	0.0	13.1
85°	204.4	31.9	18.8	16.9	13.1	5.6	3.8	1.9	0.0	0.0	0.0
87.5°	33.8	13.1	7.5	3.8	1.9	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)