

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: P323684

Luminaire Tested: **GAN-SA0B-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38400 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

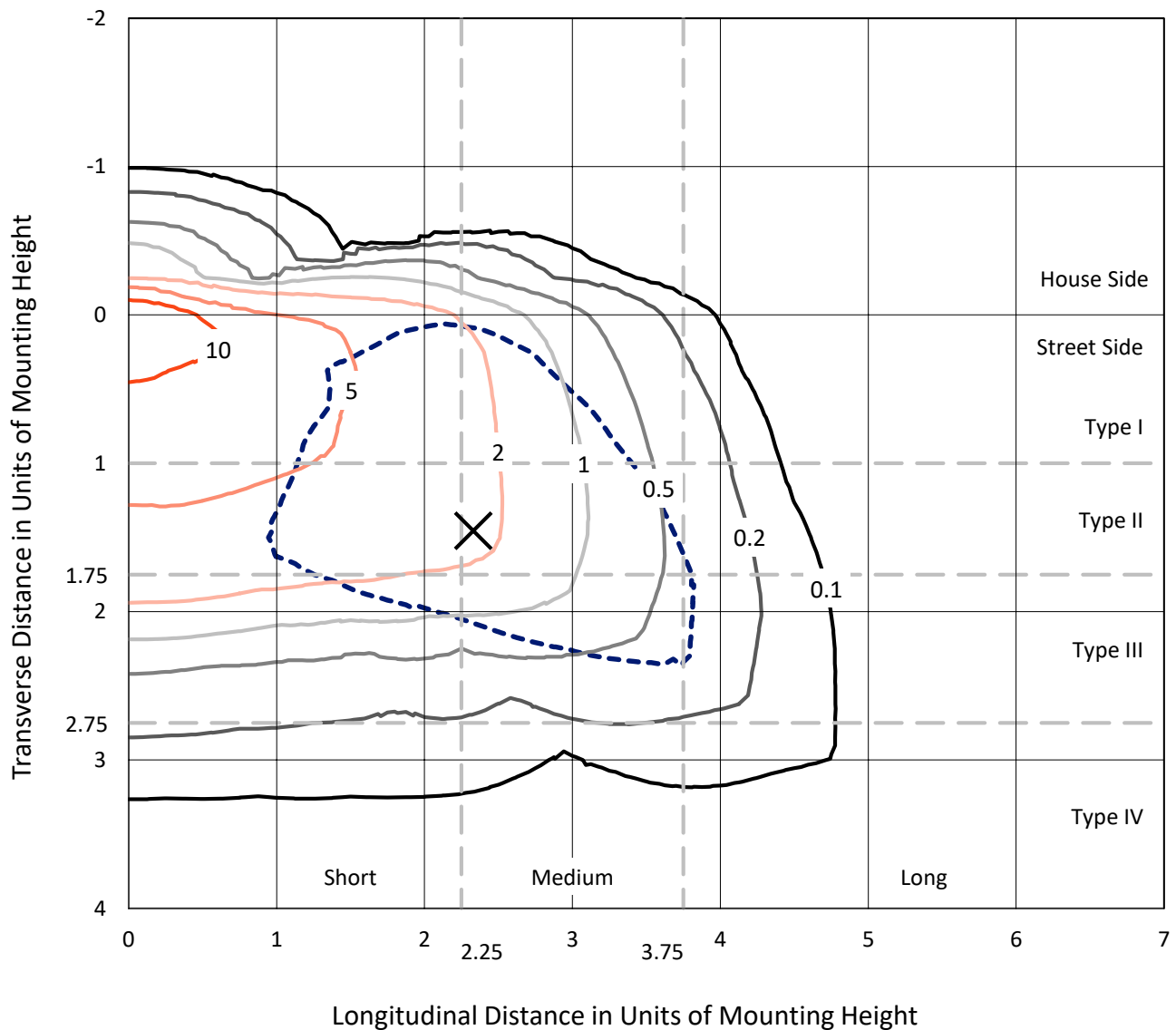
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

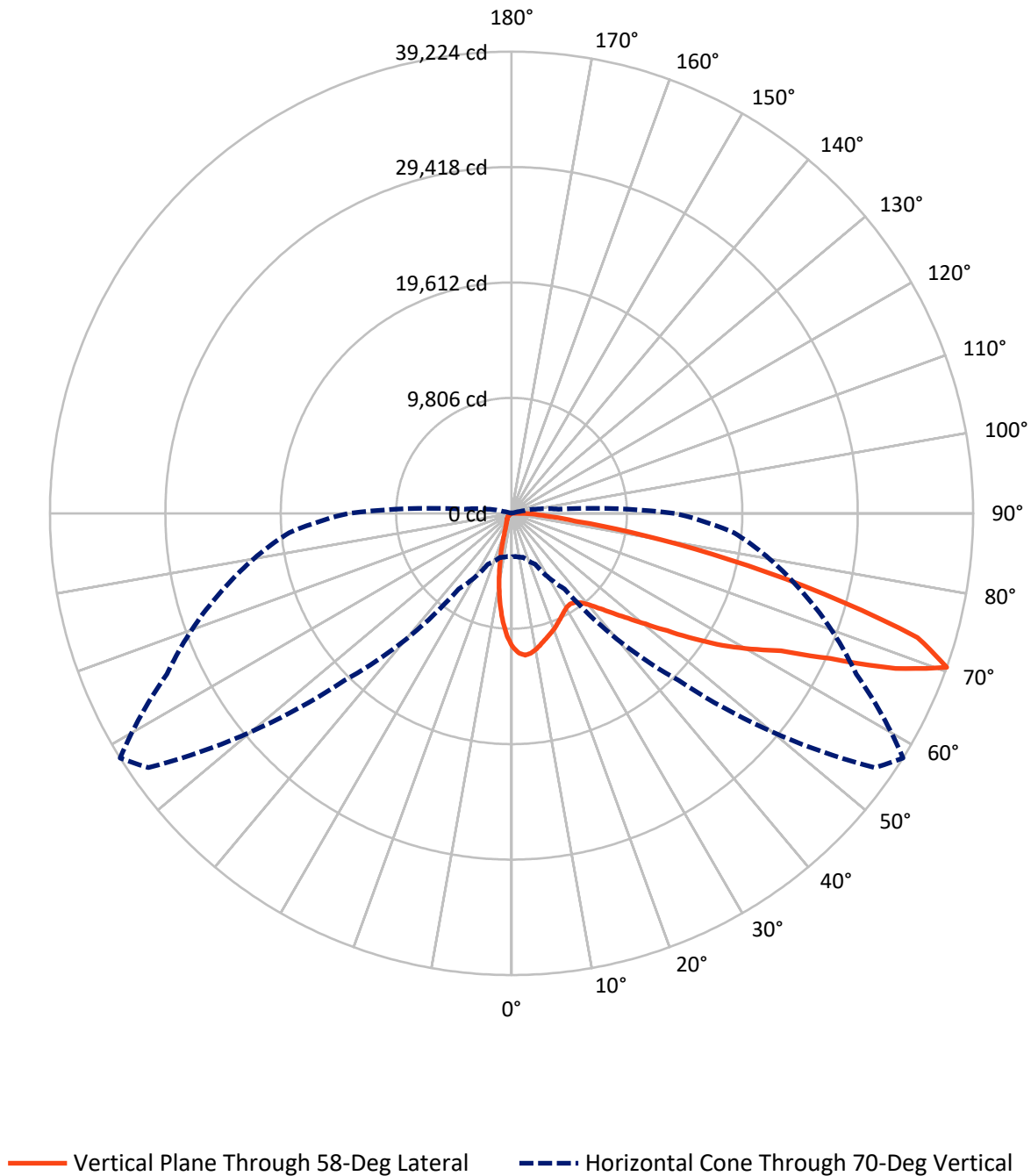
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	3286.2	0.0	3286.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	35113.8	0.0	35113.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	38400.0	0.0	38400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	927.6	2.4
10°-20°	1946.8	5.1
20°-30°	2559.3	6.7
30°-40°	3389.6	8.8
40°-50°	5066.3	13.2
50°-60°	8116.1	21.1
60°-70°	10230.2	26.6
70°-80°	5518.2	14.4
80°-90°	645.9	1.7
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°	38400.0	100.0
0°-180°	38400.0	100.0

Coefficient of Utilization



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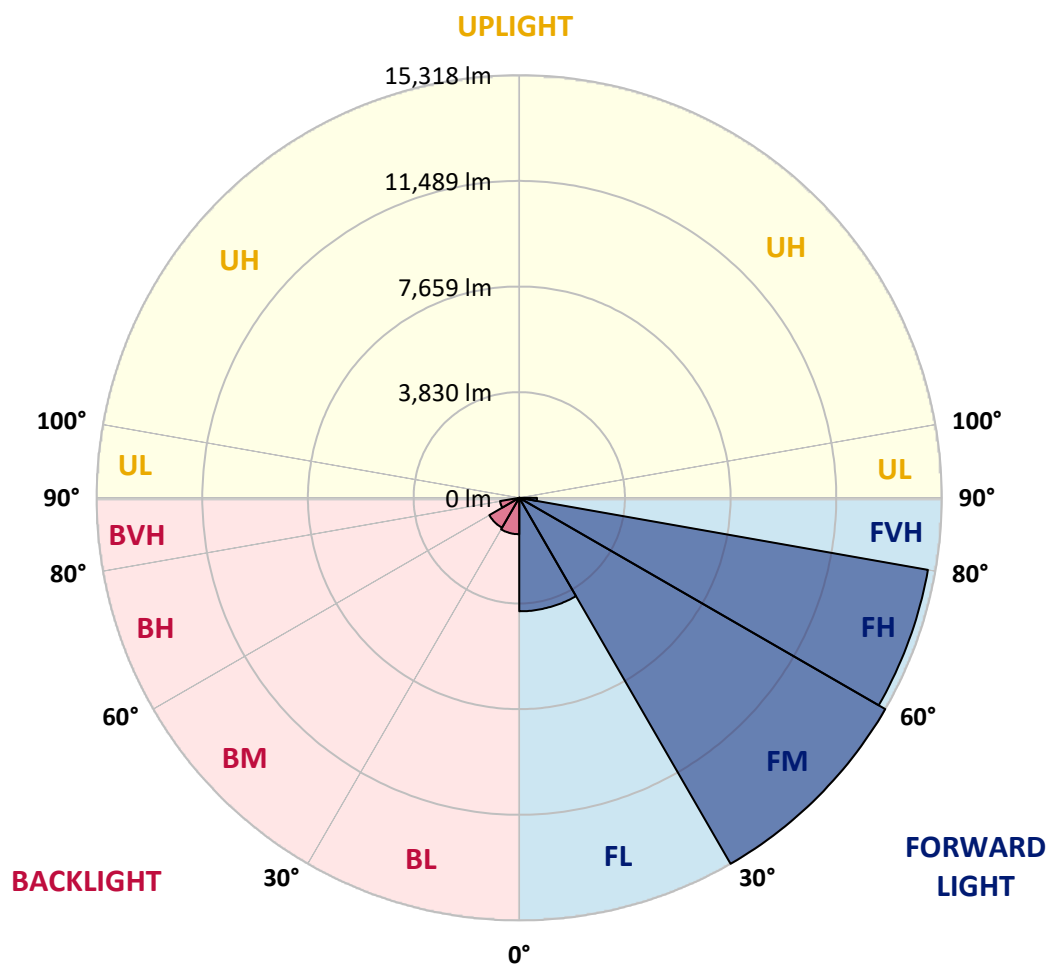
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4113.4	10.7			
FM	(30°-60°)	15318.3	39.9			
FH	(60°-80°)	15041.7	39.2			G5
FVH	(80°-90°)	640.3	1.7			G4/750
BL	(0°-30°)	1320.3	3.4	B3/2500		
BM	(30°-60°)	1253.6	3.3	B2/2500		
BH	(60°-80°)	706.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2
2.5°	12283.7	12253.3	12242.1	12223.0	12149.5	12077.7	11935.6	11895.6	11806.2	11593.9	11368.7
5°	12293.2	12291.6	12325.2	12317.2	12291.6	12258.1	12155.9	12103.2	11951.5	11648.2	11236.2
7.5°	11700.8	11731.2	11806.2	11866.9	11937.2	12028.2	12040.9	11989.9	11865.3	11538.0	10991.9
10°	10905.7	10953.6	11059.0	11178.7	11362.3	11544.4	11707.2	11700.8	11657.7	11335.2	10698.1
12.5°	10108.9	10164.8	10286.1	10463.4	10723.6	11020.6	11311.2	11351.2	11423.0	11153.2	10426.7
15°	9411.1	9459.0	9578.8	9795.9	10118.5	10517.7	10944.0	11017.4	11202.7	11011.1	10199.9
17.5°	8818.7	8849.1	8936.9	9178.0	9551.6	10035.5	10589.5	10733.2	11009.5	10899.3	10003.5
20°	8405.2	8410.0	8467.5	8636.7	9010.4	9551.6	10222.3	10428.3	10805.1	10803.5	9800.7
22.5°	8200.8	8184.8	8196.0	8293.4	8568.1	9090.2	9855.0	10099.3	10621.5	10722.0	9594.8
25°	8162.5	8149.7	8117.8	8130.6	8296.6	8686.2	9484.6	9767.2	10460.2	10672.6	9415.9
27.5°	8282.2	8295.0	8240.7	8183.2	8196.0	8424.4	9155.7	9483.0	10329.3	10672.6	9289.8
30°	8523.4	8529.7	8489.8	8414.8	8314.2	8350.9	8927.3	9254.7	10263.8	10746.0	9209.9
32.5°	8790.0	8825.1	8820.3	8759.7	8616.0	8467.5	8873.0	9171.6	10259.0	10908.9	9202.0
35°	9120.5	9160.4	9227.5	9214.7	9064.6	8820.3	9058.3	9293.0	10353.2	11177.1	9288.2
37.5°	9471.8	9532.5	9676.2	9744.9	9647.4	9371.2	9473.4	9641.1	10605.5	11611.4	9506.9
40°	9811.9	9880.6	10142.4	10412.3	10338.8	10054.6	10102.5	10236.6	11054.2	12235.8	9922.1
42.5°	10145.6	10247.8	10632.6	11076.5	11164.3	10937.6	10963.2	11070.1	11720.0	13094.8	10600.7
45°	10544.8	10659.8	11229.8	11777.5	12012.2	11913.2	12021.8	12092.0	12590.2	14230.1	11515.6
47.5°	11130.8	11263.3	11962.7	12587.0	12999.0	13062.9	13281.6	13327.9	13690.4	15552.2	12708.4
50°	12274.1	12310.8	12943.1	13509.9	14103.9	14487.1	14736.2	14771.4	15022.0	16997.2	14198.1
52.5°	13712.7	13736.7	14094.3	14474.4	15149.8	15932.2	16515.0	16564.5	16617.2	18405.5	15668.7
55°	15141.8	15138.6	15374.9	15598.5	16371.3	17508.2	18772.8	18803.1	18424.7	19742.0	16792.8
57.5°	16034.4	16120.6	16479.9	16767.3	17846.7	19304.5	21059.3	21171.1	20323.2	20732.0	17904.1
60°	15750.2	15791.7	16588.4	17651.9	19684.5	21857.7	23373.0	23401.7	21750.7	21720.3	19309.3
62.5°	13418.9	13441.3	14693.1	16885.4	20615.4	25169.3	26164.0	25696.2	23392.1	23091.9	20990.6
65°	9197.2	9342.5	10388.3	13098.0	18905.3	27246.6	30484.8	29710.4	25894.2	25068.7	22510.7
67.5°	5416.1	5385.8	5903.1	7899.0	13885.2	25867.0	35950.4	35180.8	29306.4	26392.4	22065.2
70°	3699.6	3678.9	3876.9	4782.2	7838.4	20066.1	37670.1	39223.7	32319.4	25501.4	18989.9
72.5°	2641.0	2652.2	2944.4	3715.6	4921.1	11691.3	32394.5	36071.8	31375.8	22231.3	14434.4
75°	1793.1	1823.5	2241.8	3048.2	4314.4	5947.8	22988.1	27420.7	25549.3	16157.3	8296.6
77.5°	964.4	998.0	1491.3	2455.8	3900.8	4132.3	14787.3	18871.8	16048.7	7263.5	2404.7
80°	402.4	421.5	697.8	1785.1	3370.7	3629.4	8700.6	11443.8	6838.8	1432.3	536.5
82.5°	174.0	183.6	290.6	1065.0	2519.6	3064.1	4606.6	5505.5	2072.6	314.6	269.8
85°	33.5	35.1	119.8	563.6	1607.9	1729.3	2985.9	2926.8	930.9	135.7	196.4
87.5°	0.0	0.0	28.7	177.2	472.6	942.1	1821.9	1799.5	316.2	65.5	73.4
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°	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2	11343.2
2.5°	11253.8	11143.6	10912.1	10626.2	10407.5	10166.4	9974.8	9732.1	9626.7	9631.5	9574.0
5°	11001.5	10774.7	10262.2	9615.5	9117.3	8603.2	8160.9	7720.2	7459.9	7375.3	7295.5
7.5°	10640.6	10281.4	9463.8	8467.5	7624.4	6800.5	6083.5	5452.8	5053.7	4858.9	4787.0
10°	10233.5	9728.9	8545.7	7233.2	6029.3	4914.7	3985.4	3177.5	2855.0	2636.2	2580.3
12.5°	9875.8	9192.4	7648.3	5967.0	4537.9	3193.5	2307.3	1804.3	1585.6	1499.3	1485.0
15°	9538.9	8691.0	6784.5	4820.5	3142.4	1965.6	1467.4	1296.5	1245.5	1231.1	1231.1
17.5°	9221.1	8213.6	5939.8	3691.6	2078.9	1378.0	1215.1	1176.8	1160.8	1159.2	1160.8
20°	8889.0	7736.2	5109.5	2704.9	1451.4	1167.2	1122.5	1101.7	1097.0	1097.0	1097.0
22.5°	8571.3	7258.7	4301.6	1932.0	1164.0	1065.0	1042.7	1028.3	1023.5	1021.9	1018.7
25°	8266.3	6805.3	3512.8	1365.2	1021.9	975.6	956.4	937.3	922.9	914.9	910.1
27.5°	8015.6	6401.3	2778.3	1095.4	922.9	883.0	859.0	830.3	795.2	779.2	772.8
30°	7816.0	6032.5	2141.2	924.5	830.3	790.4	753.7	704.2	653.1	625.9	624.3
32.5°	7659.5	5670.0	1625.5	817.5	747.3	697.8	645.1	582.8	523.7	493.4	491.8
35°	7582.9	5350.6	1242.3	739.3	673.8	611.5	546.1	477.4	419.9	391.2	388.0
37.5°	7634.0	5080.8	969.2	673.8	611.5	539.7	463.1	391.2	340.1	314.6	313.0
40°	7820.8	4908.4	787.2	617.9	558.9	471.0	388.0	320.9	277.8	257.1	255.5
42.5°	8218.4	4844.5	672.2	571.6	507.8	407.2	322.5	265.1	225.1	210.8	207.6
45°	8882.6	4938.7	594.0	526.9	455.1	346.5	266.7	217.2	182.0	170.9	169.3
47.5°	9767.2	5186.2	538.1	483.8	407.2	292.2	221.9	175.6	148.5	137.3	135.7
50°	10907.3	5579.0	491.8	440.7	362.5	247.5	183.6	138.9	115.0	107.0	107.0
52.5°	12147.9	6046.8	450.3	400.8	317.7	206.0	148.5	107.0	91.0	81.4	81.4
55°	13173.0	6455.6	405.6	370.4	263.5	170.9	113.4	81.4	67.1	62.3	62.3
57.5°	14196.5	6891.5	354.5	317.7	210.8	138.9	86.2	60.7	49.5	46.3	46.3
60°	15523.4	7424.8	305.0	258.7	166.1	105.4	63.9	43.1	36.7	35.1	35.1
62.5°	16982.8	7737.8	260.3	207.6	129.3	78.2	46.3	28.7	27.1	27.1	25.5
65°	17875.4	7295.5	218.8	166.1	100.6	59.1	30.3	20.8	24.0	22.4	19.2
67.5°	16736.9	5711.5	178.8	129.3	78.2	44.7	19.2	14.4	25.5	20.8	16.0
70°	13858.0	3998.2	138.9	91.0	62.3	38.3	12.8	9.6	27.1	20.8	12.8
72.5°	10370.8	2676.1	110.2	60.7	46.3	33.5	11.2	4.8	24.0	17.6	11.2
75°	5666.8	1077.8	87.8	38.3	28.7	24.0	8.0	3.2	16.0	12.8	8.0
77.5°	1491.3	284.2	63.9	25.5	16.0	9.6	4.8	1.6	8.0	6.4	3.2
80°	380.0	110.2	41.5	17.6	11.2	4.8	0.0	0.0	1.6	0.0	0.0
82.5°	202.8	46.3	25.5	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	153.3	30.3	14.4	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.1	9.6	4.8	0.0	0.0	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)