

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: P268748

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32804.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

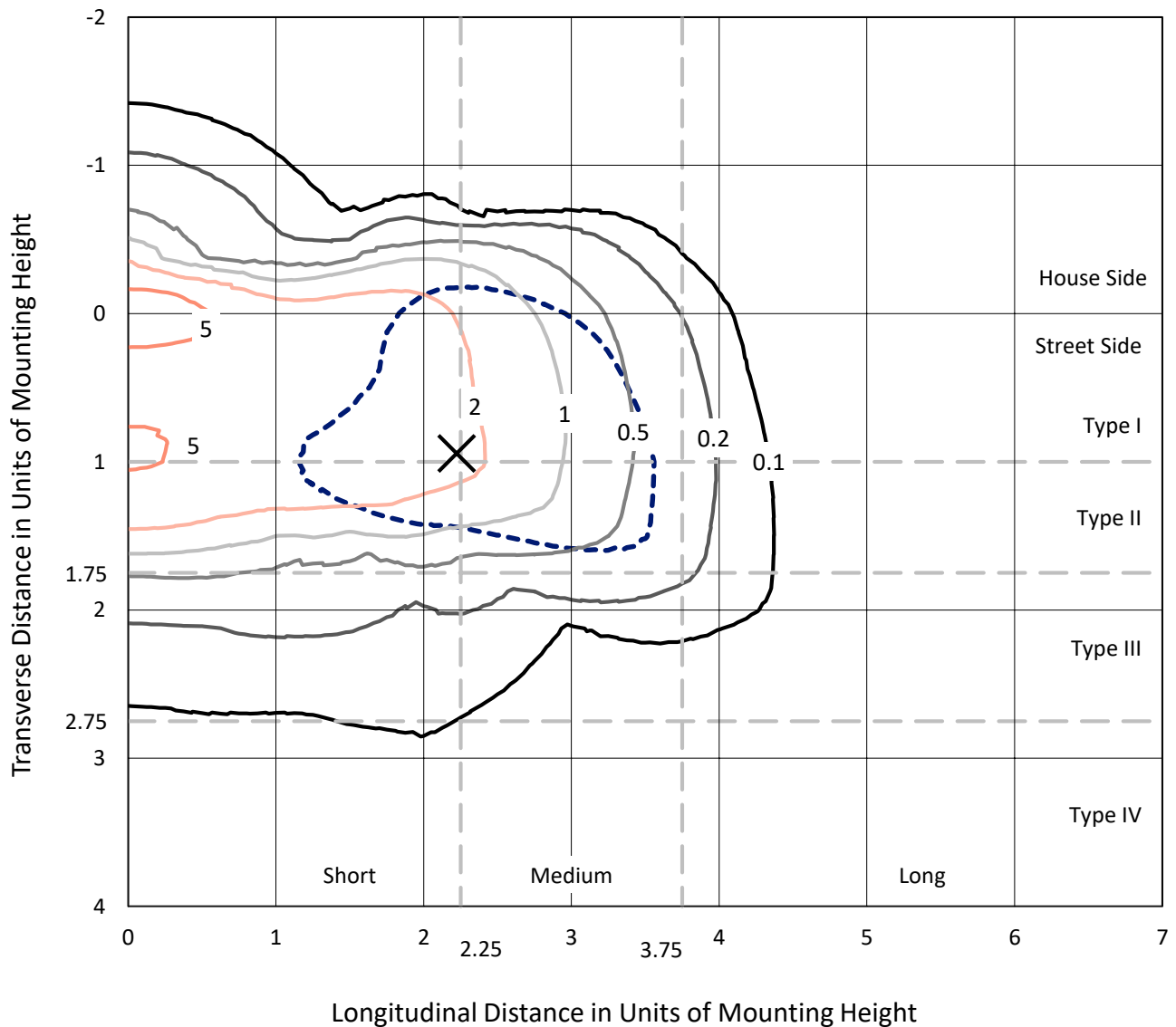
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

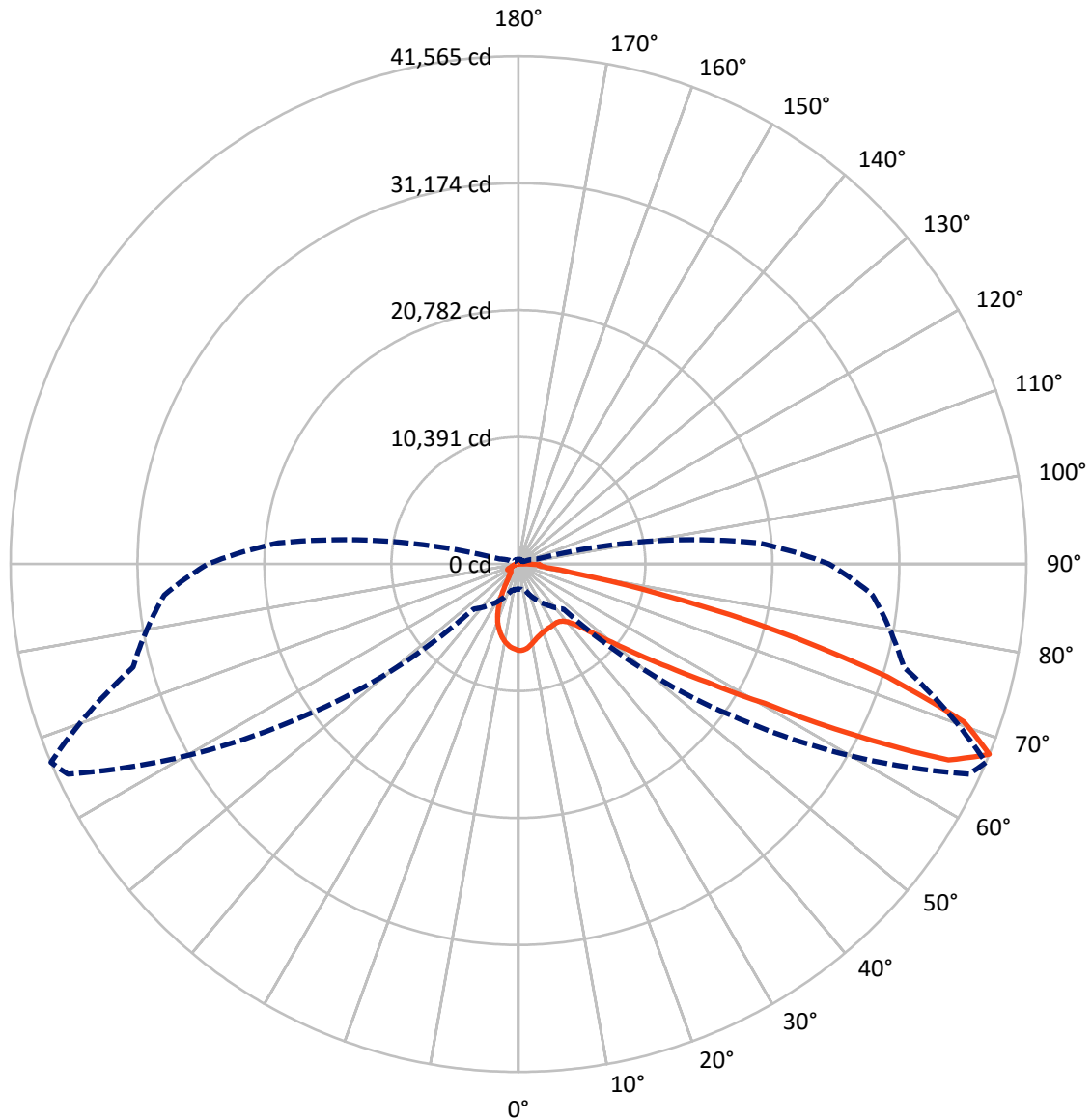


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5435.3	0.0	5435.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	27368.8	0.0	27368.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	32804.1	0.0	32804.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.7	1.8
10°-20°	1396.8	4.3
20°-30°	1893.4	5.8
30°-40°	2691.6	8.2
40°-50°	4503.2	13.7
50°-60°	7124.0	21.7
60°-70°	9075.3	27.7
70°-80°	4753.6	14.5
80°-90°	762.4	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°	32804.1	100.0
0°-180°	32804.1	100.0

Coefficient of Utilization



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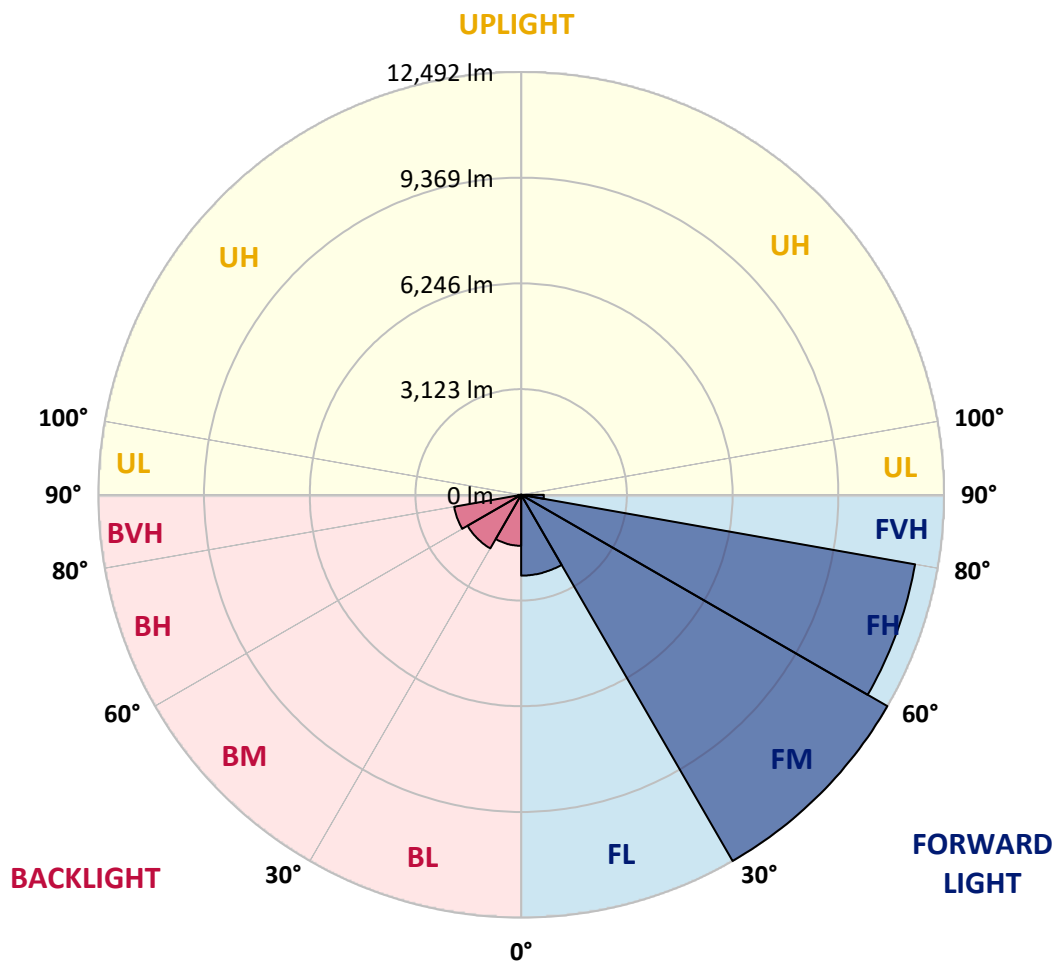
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.3	7.3			
FM (30°-60°)	12492.5	38.1			
FH (60°-80°)	11818.6	36.0			G4/12000
FVH (80°-90°)	670.4	2.0			G4/750
BL (0°-30°)	1506.5	4.6	B3/2500		
BM (30°-60°)	1826.4	5.6	B2/2500		
BH (60°-80°)	2010.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	92.0	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8
2.5°	6784.5	6795.9	6831.5	6854.2	6956.0	6999.8	7030.5	7061.1	7066.1	7080.6	7066.1
5°	6072.8	6097.1	6163.5	6237.8	6435.2	6590.4	6753.8	6923.6	6954.4	7064.5	7095.2
7.5°	5521.2	5514.6	5569.8	5658.7	5860.9	6076.0	6362.3	6700.5	6766.8	7014.2	7134.0
10°	5118.4	5113.5	5171.7	5264.0	5456.5	5660.3	5983.8	6446.4	6540.3	6935.1	7171.2
12.5°	4820.8	4822.3	4880.5	4982.4	5178.2	5383.6	5712.1	6200.6	6320.2	6842.7	7210.1
15°	4623.3	4636.3	4683.3	4791.6	4982.4	5187.9	5509.8	6016.2	6150.4	6769.9	7253.8
17.5°	4557.0	4578.0	4594.2	4673.5	4836.8	5042.4	5357.9	5880.2	6022.6	6720.0	7292.5
20°	4618.5	4642.8	4612.0	4639.6	4743.1	4924.1	5238.0	5773.5	5919.1	6663.3	7297.4
22.5°	4882.2	4904.8	4814.2	4735.0	4728.5	4838.5	5139.5	5689.3	5839.8	6621.1	7299.0
25°	5346.4	5361.1	5208.9	5024.5	4845.0	4807.8	5069.9	5631.1	5791.4	6583.9	7268.2
27.5°	5915.9	5927.1	5752.4	5480.6	5120.0	4880.5	5045.6	5597.2	5763.9	6551.6	7216.5
30°	6608.2	6661.7	6427.1	6084.1	5558.4	5095.7	5094.1	5579.5	5733.1	6496.6	7114.5
32.5°	7316.8	7339.4	7177.6	6829.9	6148.8	5474.2	5230.0	5592.4	5725.0	6430.2	6985.2
35°	8035.0	8064.2	7959.1	7679.2	6956.0	6029.2	5495.3	5668.3	5775.2	6407.6	6894.6
37.5°	8965.3	9004.0	8858.5	8534.8	7938.1	6781.3	5936.9	5859.3	5928.9	6472.4	6867.1
40°	10435.7	10418.0	9992.4	9510.4	9012.2	7743.8	6567.8	6182.8	6223.3	6681.1	6951.2
42.5°	12147.2	12103.6	11370.7	10613.7	10193.1	8908.6	7402.6	6744.1	6736.0	7091.8	7247.3
45°	13512.6	13476.9	12816.8	11883.5	11547.1	10235.1	8481.5	7580.4	7520.6	7743.8	7794.1
47.5°	14251.8	14253.4	13873.2	13111.3	13103.2	11920.7	9867.9	8790.5	8687.0	8792.2	8738.7
50°	13993.0	14026.9	13986.5	13743.9	14523.5	14130.5	11678.1	10477.7	10269.1	10372.5	10167.1
52.5°	12740.9	12784.6	13023.9	13396.1	15120.5	16801.3	14337.6	12574.2	12331.7	12294.5	12066.4
55°	10521.4	10574.8	11063.3	12074.4	14623.9	18595.3	18533.8	15246.8	14860.0	14509.1	14412.0
57.5°	7252.0	7341.0	8127.2	9628.5	13017.5	19137.2	23530.8	19056.4	18270.2	17043.9	17066.5
60°	4087.8	4191.4	5118.4	6482.1	9775.6	18548.4	27332.4	24826.5	23166.8	20012.4	20180.7
62.5°	2599.7	2711.3	3414.9	4503.7	5865.8	15377.7	28890.2	32848.7	30740.9	23671.5	23836.5
65°	2104.5	2153.1	2484.7	3717.5	4259.4	9264.5	27707.7	39457.0	38670.7	28316.0	27545.9
67.5°	2054.5	2070.7	2242.1	3120.5	4084.7	5207.4	22100.8	40693.0	41564.8	32653.0	29090.8
70°	2030.2	2086.9	2526.8	2978.2	3911.6	4392.1	13281.3	37305.4	38682.1	33787.1	27034.8
72.5°	985.3	981.9	1271.6	2693.5	4406.5	4555.5	6823.3	30184.4	31565.9	29272.0	22215.7
75°	794.3	726.3	694.0	986.8	4236.8	4704.2	4348.3	20769.4	21769.2	19625.8	13656.6
77.5°	753.9	673.0	616.3	617.9	1790.9	4988.9	3683.5	11495.3	11786.4	8865.0	3741.7
80°	624.4	550.0	509.6	574.2	867.0	4751.1	3982.7	5202.4	4773.9	2177.4	1245.6
82.5°	433.5	394.7	383.3	482.1	694.0	3385.8	4631.4	2795.3	2344.0	1090.4	768.4
85°	276.6	236.2	262.0	351.1	540.3	1562.7	4770.5	2179.0	1732.6	692.4	433.5
87.5°	127.7	103.6	129.4	194.2	352.7	538.8	4539.2	2447.5	1784.4	365.6	273.4
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°	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8	7075.8
2.5°	7079.1	7048.2	7023.9	6978.8	6928.5	6879.9	6836.3	6781.3	6765.1	6750.7	6773.2
5°	7101.6	7070.9	6981.9	6842.7	6689.0	6545.1	6401.2	6278.3	6202.2	6160.1	6184.4
7.5°	7135.5	7091.8	6907.4	6651.9	6375.4	6122.9	5862.5	5653.8	5500.1	5427.3	5448.4
10°	7166.4	7082.2	6781.3	6398.0	5993.5	5618.2	5207.4	4867.6	4615.2	4482.6	4514.9
12.5°	7179.3	7045.0	6605.0	6080.8	5526.1	4976.0	4371.1	3863.0	3500.7	3368.0	3340.4
15°	7192.2	7002.9	6410.8	5720.1	4961.5	4183.3	3335.6	2727.4	2426.5	2360.1	2345.7
17.5°	7195.5	6930.2	6190.8	5328.7	4299.7	3240.2	2280.9	1894.3	1896.0	2002.7	2015.6
20°	7161.5	6821.8	5924.0	4841.8	3507.2	2240.6	1565.9	1499.6	1743.9	2010.8	2043.1
22.5°	7083.9	6677.8	5621.5	4274.0	2599.7	1475.3	1211.6	1284.4	1599.9	1926.7	1963.9
25°	6985.2	6503.1	5264.0	3615.5	1721.2	1054.7	1016.0	1104.8	1318.4	1536.8	1557.8
27.5°	6851.0	6296.0	4862.7	2861.7	1117.9	868.8	894.6	954.4	1041.8	1138.8	1148.6
30°	6677.8	6048.5	4434.0	2086.9	844.4	781.3	818.5	851.0	888.2	943.1	947.9
32.5°	6478.8	5810.7	3994.0	1441.4	748.9	736.0	765.1	781.3	810.5	844.4	847.7
35°	6312.2	5584.3	3537.9	1019.1	708.6	702.0	721.5	727.9	755.5	792.7	795.9
37.5°	6216.8	5399.8	3067.2	821.8	681.0	671.4	682.6	682.6	721.5	776.5	784.6
40°	6223.3	5297.9	2596.5	742.4	658.4	645.4	647.0	647.0	697.3	757.1	761.9
42.5°	6399.5	5323.9	2179.0	711.7	640.6	626.1	617.9	622.9	664.8	703.7	707.0
45°	6813.6	5506.6	1787.5	692.4	622.9	617.9	600.2	598.5	614.7	632.4	632.4
47.5°	7493.1	5867.3	1522.3	679.4	608.2	606.6	585.6	564.6	563.0	569.4	569.4
50°	8597.9	6488.5	1344.4	664.8	598.5	585.6	561.4	529.0	517.7	522.5	522.5
52.5°	10254.5	7596.6	1276.3	645.4	577.5	556.5	529.0	496.7	486.9	488.6	488.6
55°	12427.1	9298.4	1266.6	622.9	554.9	520.8	498.2	473.9	462.6	466.0	466.0
57.5°	15081.6	11652.2	1439.8	587.2	524.2	485.4	472.4	456.2	448.2	452.9	451.3
60°	18309.0	14732.3	2135.4	550.0	493.3	452.9	452.9	440.0	433.5	438.5	436.8
62.5°	22026.4	18270.2	3002.4	522.5	461.0	427.1	433.5	427.1	420.5	423.8	422.3
65°	25323.2	20575.4	2811.5	501.4	428.8	402.8	414.1	410.9	406.0	409.3	407.7
67.5°	25418.7	19721.2	1579.0	478.8	397.9	378.5	394.7	393.1	389.9	393.1	391.5
70°	22684.8	16652.4	889.7	436.8	365.6	349.4	372.1	370.5	367.1	373.6	372.1
72.5°	18174.7	12084.1	650.4	385.1	333.2	318.7	344.6	343.0	343.0	352.7	347.9
75°	10458.3	6218.3	519.3	329.9	299.2	287.9	310.6	312.3	315.5	328.4	318.7
77.5°	2981.4	1938.1	423.8	279.8	257.3	252.3	275.1	278.3	279.8	294.5	281.4
80°	1108.1	892.9	349.4	234.5	210.4	211.9	232.9	237.8	239.4	254.0	237.8
82.5°	707.0	588.7	283.1	181.2	165.0	163.4	189.3	195.7	195.7	197.4	187.7
85°	412.5	352.7	213.5	131.1	116.5	111.6	140.8	152.1	147.2	144.0	137.5
87.5°	276.6	242.6	131.1	72.9	63.2	59.8	82.6	90.5	87.3	82.6	77.7
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)