

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: P319212

Luminaire Tested: **GAN-SA8C-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44731 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

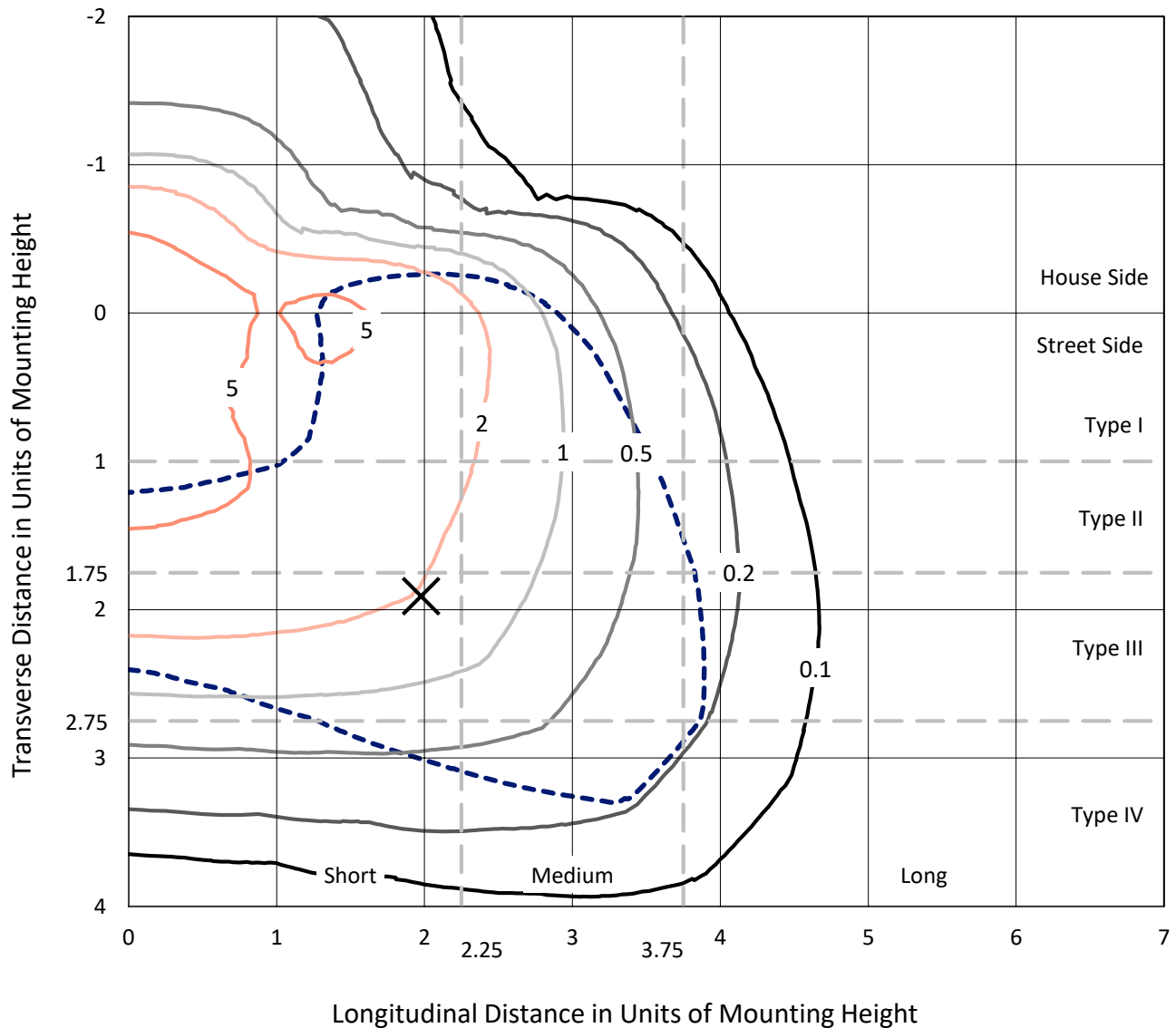
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

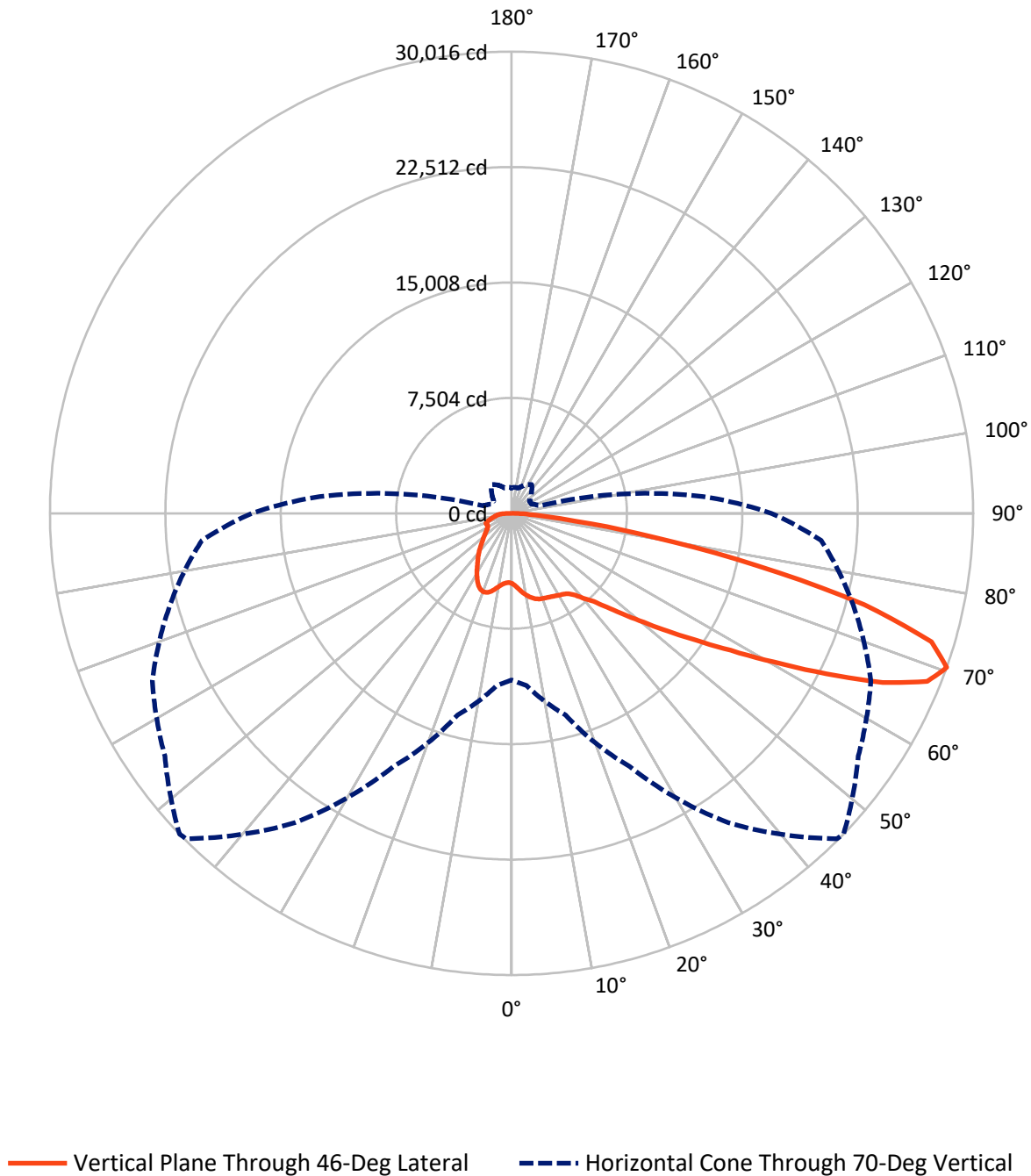
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	10252.2	0.0	10252.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	34478.8	0.0	34478.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	44731.0	0.0	44731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	1.0
10°-20°	1547.8	3.5
20°-30°	2580.8	5.8
30°-40°	3662.3	8.2
40°-50°	5387.1	12.0
50°-60°	9123.0	20.4
60°-70°	12950.0	29.0
70°-80°	7867.2	17.6
80°-90°	1148.1	2.6
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°	44731.0	100.0
0°-180°	44731.0	100.0

Coefficient of Utilization



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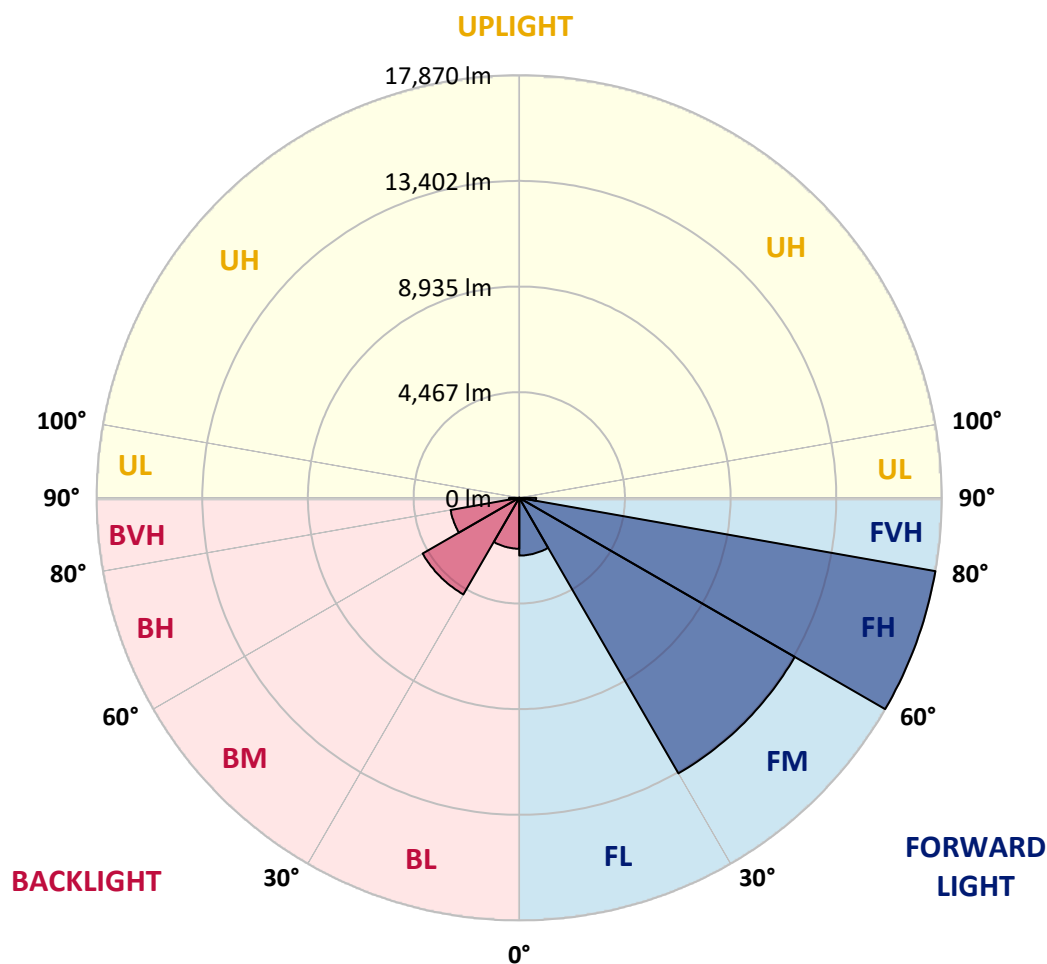
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2440.7	5.5			
FM	(30°-60°)	13453.1	30.1			
FH	(60°-80°)	17869.8	39.9			G5
FVH	(80°-90°)	715.2	1.6			G4/750
BL	(0°-30°)	2152.5	4.8	B3/2500		
BM	(30°-60°)	4719.4	10.6	B3/5000		
BH	(60°-80°)	2947.4	6.6	B4/5000		G4/5000
BVH	(80°-90°)	432.9	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2
2.5°	4785.3	4788.4	4794.5	4779.2	4736.3	4724.1	4719.5	4675.1	4646.0	4603.1	4566.4
5°	5168.0	5171.1	5161.9	5119.0	5024.1	4953.7	4947.6	4846.5	4754.7	4656.7	4583.2
7.5°	5567.5	5572.1	5543.1	5461.9	5328.7	5206.3	5198.6	5060.8	4921.5	4773.1	4662.8
10°	5921.2	5902.8	5855.3	5742.1	5584.4	5434.4	5428.2	5284.3	5123.6	4944.5	4797.6
12.5°	6156.9	6141.6	6080.4	5942.6	5769.6	5631.8	5619.6	5486.4	5330.3	5134.3	4958.3
15°	6287.0	6297.7	6215.1	6058.9	5890.5	5774.2	5763.5	5668.6	5529.3	5331.8	5129.7
17.5°	6303.9	6313.0	6233.4	6078.8	5941.1	5861.5	5856.9	5794.1	5693.1	5503.3	5292.0
20°	6205.9	6212.0	6146.2	6019.1	5928.8	5904.3	5902.8	5875.2	5800.2	5631.8	5426.7
22.5°	6063.5	6068.1	6020.7	5928.8	5898.2	5936.5	5947.2	5936.5	5882.9	5725.2	5532.3
25°	6028.3	6025.3	5976.3	5882.9	5908.9	5990.0	6003.8	6008.4	5971.7	5833.9	5667.0
27.5°	6198.2	6187.5	6094.1	5944.1	5961.0	6058.9	6077.3	6121.7	6098.7	5977.8	5820.1
30°	6689.6	6671.3	6479.9	6176.8	6094.1	6144.7	6167.6	6238.0	6242.6	6141.6	6023.7
32.5°	7519.3	7496.4	7153.5	6611.6	6319.2	6231.9	6253.3	6359.0	6415.6	6337.5	6210.5
35°	8567.9	8541.9	8091.8	7350.9	6695.8	6398.8	6414.1	6498.3	6611.6	6501.3	6332.9
37.5°	9660.9	9598.2	9164.9	8220.4	7294.3	6755.5	6755.5	6766.2	6819.7	6590.1	6476.8
40°	10747.8	10685.0	10293.1	9243.0	8068.9	7317.3	7282.1	7044.8	7001.9	6804.4	6766.2
42.5°	11758.1	11739.8	11508.6	10398.8	8978.2	7869.9	7820.9	7418.3	7427.5	7305.0	7306.5
45°	12832.8	12832.8	12644.5	11565.2	10037.5	8757.7	8708.8	8116.3	8208.2	8151.5	8287.8
47.5°	13709.9	13737.5	13711.4	12780.7	11269.8	9886.0	9797.2	9083.8	9341.0	9535.4	9931.9
50°	14605.4	14648.3	14652.9	14114.0	12759.3	11226.9	11125.9	10368.2	10942.2	11499.4	12278.6
52.5°	15905.1	16001.5	15617.3	15444.3	14584.0	12819.0	12719.5	12019.9	12978.2	13760.4	15102.9
55°	17109.8	17025.6	16751.6	16858.8	16537.3	14631.5	14556.4	13942.6	15246.8	16263.3	18006.9
57.5°	17762.0	17755.8	18031.4	18490.6	18643.7	16866.4	16803.7	16206.7	17804.8	18568.7	20733.3
60°	18527.4	18538.1	19220.8	20263.3	20894.0	19649.4	19621.9	19168.8	20289.3	20721.0	22871.8
62.5°	18634.5	18827.4	20003.1	21797.2	23000.4	22900.9	22962.1	21837.0	22512.1	22438.6	24468.4
65°	17402.2	17656.3	19784.2	22261.0	25094.5	26456.9	26513.6	24520.5	24264.8	23906.6	25039.4
67.5°	14876.4	15253.0	17564.5	21252.2	25784.9	29085.3	29164.9	26600.8	25719.1	24404.1	23664.8
70°	10825.9	11243.8	13570.6	18150.8	24554.1	29925.8	30016.1	27520.9	25774.2	22988.1	20202.1
72.5°	6539.6	6867.2	8785.3	13362.4	20724.1	28394.9	28555.7	26354.4	23531.6	19471.9	14917.7
75°	2871.8	3086.1	4248.0	7700.0	14836.6	23493.3	23693.8	22558.0	19119.8	14150.8	8817.5
77.5°	1223.1	1284.3	1742.1	3344.8	8387.3	16053.6	16329.1	16482.2	12972.1	7700.0	3726.0
80°	762.3	786.8	985.8	1514.0	3925.0	9016.5	9313.4	9697.7	6441.6	2830.5	1301.2
82.5°	463.8	491.4	655.2	915.4	2043.6	4087.3	4229.6	4500.6	2499.8	1223.1	673.6
85°	278.6	298.5	401.1	578.6	1163.4	1607.3	1605.8	1775.7	1177.2	786.8	355.1
87.5°	133.2	148.5	214.3	300.0	586.3	603.1	564.9	639.9	714.9	515.9	179.1
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°	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2	4557.2
2.5°	4554.2	4548.0	4528.1	4512.8	4509.8	4500.6	4492.9	4497.5	4503.6	4505.2	4505.2
5°	4552.6	4535.8	4509.8	4499.0	4512.8	4531.2	4554.2	4584.8	4603.1	4616.9	4626.1
7.5°	4626.1	4594.0	4564.9	4558.7	4586.3	4635.3	4687.3	4751.6	4796.0	4826.6	4832.8
10°	4748.6	4708.8	4679.7	4685.8	4734.8	4805.2	4878.7	4961.3	5028.7	5070.0	5073.1
12.5°	4889.4	4851.1	4823.6	4849.6	4930.7	5016.5	5093.0	5164.9	5226.2	5267.5	5267.5
15°	5051.7	5024.1	4992.0	5051.7	5161.9	5238.4	5270.6	5305.8	5339.5	5370.1	5363.9
17.5°	5207.8	5181.8	5164.9	5235.4	5350.2	5385.4	5363.9	5337.9	5337.9	5354.8	5357.8
20°	5342.5	5319.6	5330.3	5399.2	5458.9	5422.1	5342.5	5259.9	5226.2	5235.4	5244.5
22.5°	5460.4	5449.7	5481.8	5514.0	5471.1	5342.5	5195.6	5083.8	5042.5	5039.4	5042.5
25°	5598.2	5596.6	5636.4	5578.3	5388.4	5151.2	4953.7	4845.0	4822.0	4840.4	4871.0
27.5°	5769.6	5786.5	5806.4	5593.6	5220.1	4861.8	4661.3	4586.3	4609.3	4653.7	4682.7
30°	5988.5	6034.4	5991.6	5555.3	4978.2	4531.2	4339.8	4318.4	4381.2	4443.9	4474.5
32.5°	6201.3	6273.2	6169.2	5455.8	4665.9	4180.6	4032.1	4026.0	4102.6	4163.8	4206.7
35°	6372.8	6515.1	6302.3	5258.3	4304.6	3857.6	3748.9	3707.6	3735.2	3807.1	3856.1
37.5°	6596.2	6833.5	6394.2	4956.8	3912.7	3591.3	3464.2	3369.3	3344.8	3373.9	3398.4
40°	7005.0	7318.8	6437.0	4535.8	3530.0	3324.9	3196.3	3057.0	2960.6	2890.2	2891.7
42.5°	7672.4	7951.0	6409.5	4024.5	3176.4	3064.7	2919.2	2758.5	2602.4	2443.2	2430.9
45°	8756.2	8890.9	6326.8	3482.6	2865.7	2792.2	2656.0	2495.2	2287.0	2106.4	2089.6
47.5°	10490.6	10192.1	6198.2	3009.6	2591.7	2561.0	2435.5	2250.3	2029.9	1884.4	1872.2
50°	12855.7	12070.4	6135.5	2633.0	2349.8	2359.0	2256.4	2060.5	1852.3	1745.1	1732.9
52.5°	15684.7	14257.9	6256.4	2342.1	2155.4	2187.5	2111.0	1927.3	1752.8	1668.6	1656.3
55°	18619.2	16523.5	6386.5	2130.9	1971.7	2034.4	2008.4	1856.9	1699.2	1621.1	1610.4
57.5°	21131.3	18215.1	6126.3	1959.4	1807.9	1905.9	1928.8	1812.5	1671.6	1601.2	1589.0
60°	22712.6	18896.3	5443.6	1798.7	1677.8	1803.3	1882.9	1800.2	1682.4	1676.2	1667.0
62.5°	23462.7	18836.6	4419.4	1671.6	1596.6	1758.9	1916.6	1869.1	1804.8	1859.9	1864.5
65°	23125.9	17936.5	3291.2	1587.4	1538.5	1775.7	2017.6	1999.2	1840.0	1895.1	1902.8
67.5°	20909.3	15788.7	2437.0	1514.0	1474.2	1823.2	2201.3	2042.1	1771.1	1810.9	1786.5
70°	16900.1	12517.4	1879.8	1431.3	1408.3	1817.1	2284.0	2016.1	1696.1	1705.3	1639.5
72.5°	11654.0	8535.8	1529.3	1354.8	1313.4	1656.3	2225.8	1951.8	1633.4	1563.0	1475.7
75°	6337.5	4581.7	1299.7	1275.2	1146.6	1454.3	2118.6	1905.9	1576.7	1483.4	1434.4
77.5°	2493.7	1901.3	1128.2	1166.5	1002.7	1284.3	1999.2	1818.6	1498.7	1376.2	1351.7
80°	1018.0	970.5	935.3	1008.8	861.8	1123.6	1855.3	1716.0	1405.3	1276.7	1227.7
82.5°	577.1	603.1	727.1	796.0	699.6	1034.8	1786.5	1633.4	1293.5	1143.5	1085.3
85°	295.4	353.6	506.7	571.0	514.4	880.2	1645.6	1429.8	1037.9	875.6	880.2
87.5°	142.4	197.5	319.9	358.2	333.7	636.8	1229.2	1036.4	808.3	639.9	620.0
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)