

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: P194127

Luminaire Tested: **GAN-AF-09-LED-U-T4W-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T4W-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47302 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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



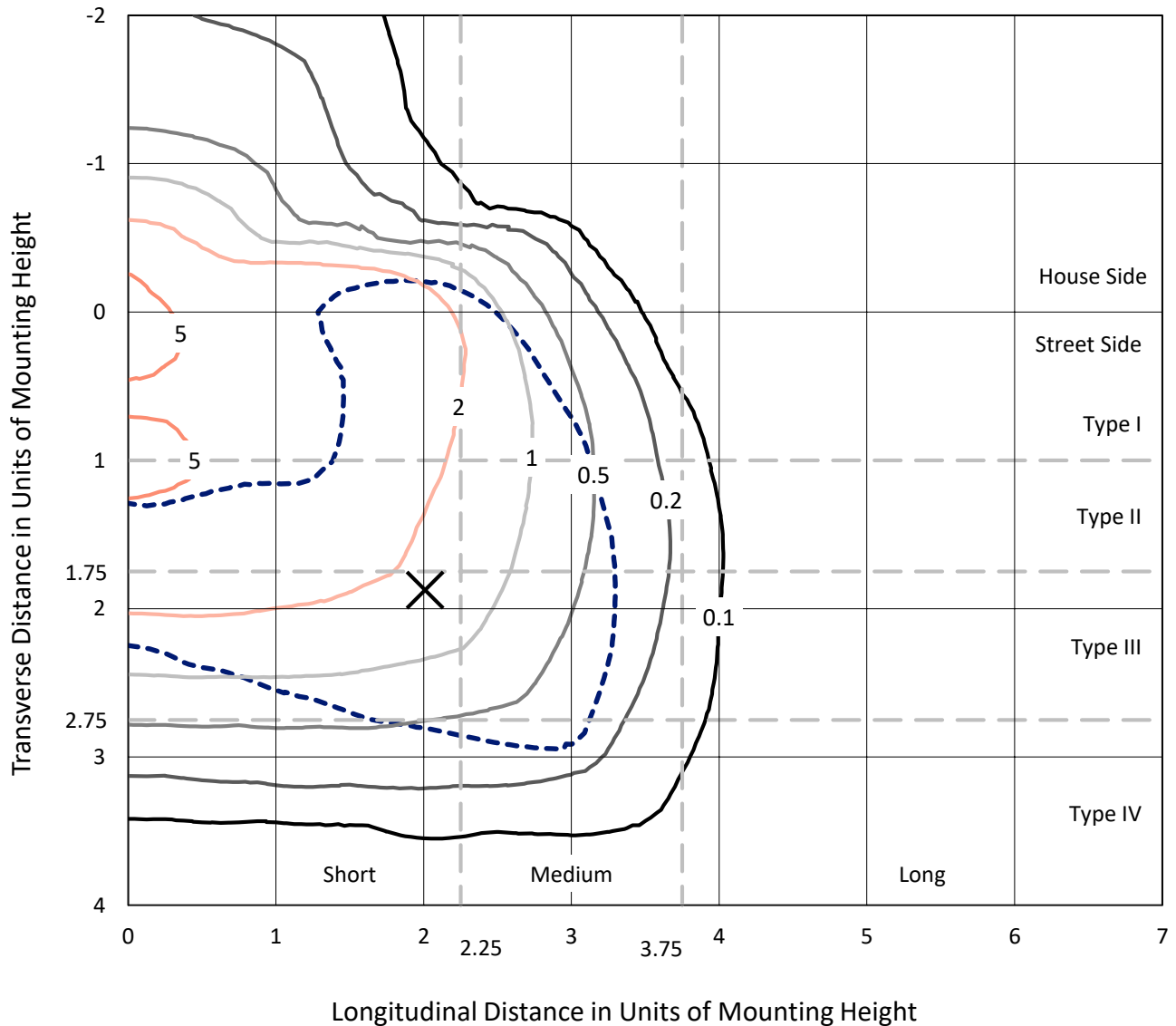


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

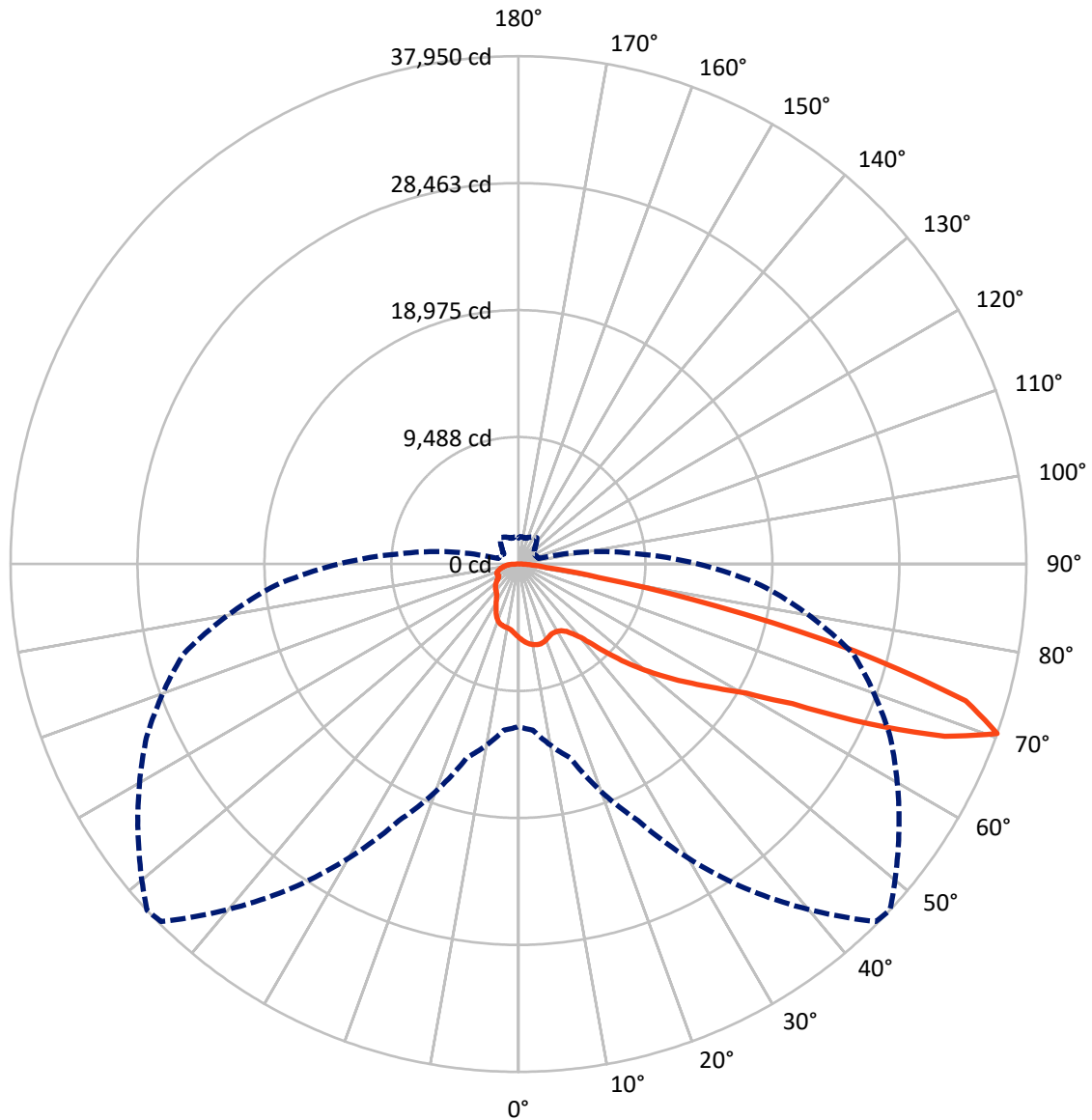


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9868.1	0.0	9868.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	37433.9	0.0	37433.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	47302.0	0.0	47302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.9	1.1
10°-20°	1542.8	3.3
20°-30°	2278.3	4.8
30°-40°	3311.5	7.0
40°-50°	5959.6	12.6
50°-60°	10324.4	21.8
60°-70°	14735.8	31.2
70°-80°	7564.6	16.0
80°-90°	1059.1	2.2
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°	47302.0	100.0
0°-180°	47302.0	100.0

Coefficient of Utilization



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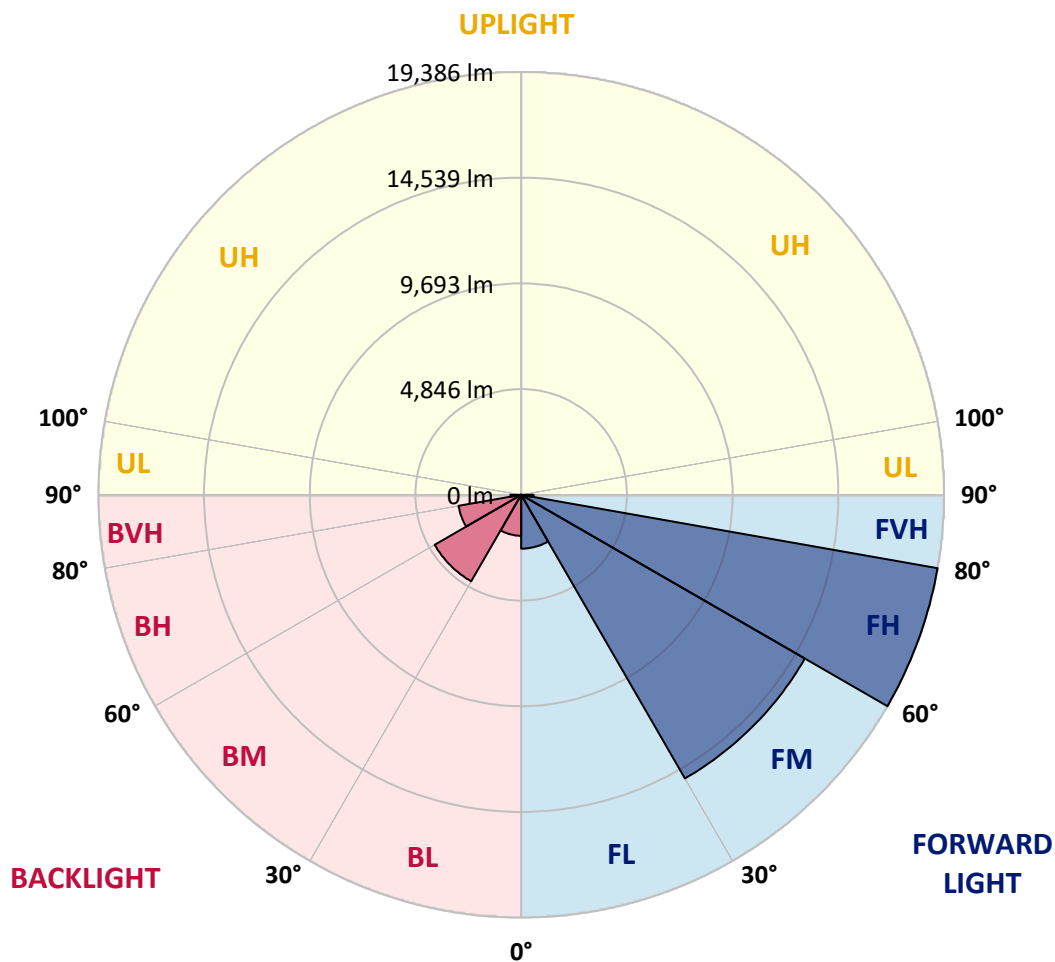
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2468.1	5.2			
FM	(30°-60°)	15015.0	31.7			
FH	(60°-80°)	19385.7	41.0			G5
FVH	(80°-90°)	565.1	1.2			G4/750
BL	(0°-30°)	1878.9	4.0	B3/2500		
BM	(30°-60°)	4580.5	9.7	B3/5000		
BH	(60°-80°)	2914.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	493.9	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°	47°	55°	65°	75°	85°
0°	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5
2.5°	5810.7	5799.2	5794.6	5785.4	5773.9	5716.3	5704.8	5663.4	5605.9	5546.0	5483.9
5°	6192.7	6190.4	6165.1	6119.0	6045.4	5918.8	5888.9	5787.7	5651.9	5520.7	5389.6
7.5°	6528.7	6508.0	6459.6	6367.6	6238.7	6066.1	6024.7	5884.3	5697.9	5518.4	5341.2
10°	6774.9	6763.4	6657.5	6531.0	6363.0	6172.0	6123.7	5967.2	5762.4	5534.5	5313.6
12.5°	6915.3	6892.3	6770.3	6618.4	6418.2	6231.8	6183.5	6024.7	5794.6	5534.5	5274.5
15°	6906.1	6890.0	6768.0	6602.3	6399.8	6236.4	6192.7	6033.9	5787.7	5511.5	5223.9
17.5°	6722.0	6728.9	6625.3	6461.9	6296.2	6172.0	6132.9	5985.6	5741.6	5465.5	5164.0
20°	6399.8	6432.0	6363.0	6218.0	6126.0	6040.8	6015.5	5891.2	5670.3	5398.8	5099.6
22.5°	6077.6	6107.5	6079.9	5958.0	5944.2	5893.5	5879.7	5790.0	5608.2	5357.3	5060.5
25°	5840.6	5868.2	5863.6	5757.8	5799.2	5796.9	5785.4	5741.6	5594.4	5357.3	5067.4
27.5°	5776.2	5785.4	5776.2	5679.5	5737.0	5783.1	5773.9	5767.0	5635.8	5424.1	5154.8
30°	5997.1	5983.3	5911.9	5716.3	5769.3	5833.7	5824.5	5829.1	5760.1	5599.0	5350.4
32.5°	6878.5	6816.3	6590.8	6040.8	5900.4	5934.9	5939.6	6015.5	6027.0	5868.2	5654.2
35°	8197.1	8128.0	7835.8	6910.7	6307.8	6188.1	6188.1	6303.2	6372.2	6254.8	6126.0
37.5°	9594.0	9518.0	9361.5	8116.5	7163.8	6627.6	6616.1	6696.7	6795.6	6823.2	6855.5
40°	11181.8	11101.3	11145.0	9469.7	8358.2	7389.3	7226.0	7168.4	7435.4	7612.6	7870.3
42.5°	12919.3	12882.5	12898.6	10977.0	9718.2	8528.5	8296.0	7999.2	8321.4	8636.6	9177.4
45°	14527.9	14560.1	14544.0	12590.2	11232.4	9918.4	9672.2	9096.9	9412.2	9952.9	10834.3
47.5°	15936.2	15802.8	16009.9	14353.0	12928.5	11474.1	11170.3	10399.4	10719.3	11386.6	12877.8
50°	17646.1	17627.6	17323.9	16704.8	14978.9	13036.6	12638.5	11745.6	12242.7	13170.1	15453.0
52.5°	19443.3	19109.7	18831.2	18534.3	17153.6	14638.3	14150.4	13087.3	14033.1	15199.8	18591.9
55°	19811.5	19662.0	20007.2	20506.5	19250.0	16302.1	15733.7	14769.5	16049.0	17519.5	22211.8
57.5°	20598.6	20596.3	21309.7	22200.3	21408.6	18067.2	17494.2	16801.5	18315.7	20177.4	26054.9
60°	21130.2	21279.7	22605.3	24333.5	23528.1	20106.1	19579.1	19146.5	20893.1	23148.4	29635.6
62.5°	21408.6	21611.1	23419.9	25198.8	26524.3	23500.5	22973.5	22349.8	24303.6	26407.0	31729.8
65°	20251.1	20649.2	23293.4	25946.7	29147.8	29002.8	28765.7	27670.3	28567.8	28982.1	30972.7
67.5°	17047.7	17455.1	20534.1	25249.4	31021.0	34309.5	34360.1	32489.2	31191.3	29203.0	26041.1
70°	12146.0	12465.9	15013.4	21169.3	29594.2	37777.5	37950.1	34709.9	30668.9	25898.4	18193.8
72.5°	5767.0	5962.6	8374.3	13777.6	23484.4	34613.2	34946.9	31874.7	26077.9	19174.1	9925.3
75°	2119.5	2179.3	2830.5	5861.3	13621.2	25525.6	25919.1	22849.2	17287.1	9545.6	3781.0
77.5°	1270.3	1309.4	1587.9	2473.9	5357.3	14590.0	15172.2	12426.8	7555.0	3553.1	1859.4
80°	888.3	915.9	1139.1	1539.5	2531.4	5559.8	6077.6	5072.0	3010.0	2248.3	1353.1
82.5°	600.6	614.4	800.8	1040.2	1682.2	1986.0	2142.5	2255.2	2029.7	1673.0	858.4
85°	393.5	407.3	543.1	685.8	1070.1	1026.4	1049.4	1327.8	1482.0	1136.8	476.4
87.5°	225.5	234.7	326.8	365.9	524.7	434.9	439.5	699.6	948.1	766.3	290.0
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°	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5	5488.5
2.5°	5467.8	5437.9	5371.1	5329.7	5290.6	5281.4	5265.3	5263.0	5260.7	5260.7	5253.8
5°	5345.8	5295.2	5191.6	5134.1	5085.8	5081.2	5078.9	5090.4	5095.0	5099.6	5092.7
7.5°	5267.6	5198.5	5069.7	4986.8	4929.3	4915.5	4938.5	4991.4	5026.0	5039.8	5032.9
10°	5219.3	5134.1	4984.5	4894.8	4846.5	4839.5	4869.5	4931.6	5002.9	5030.6	5028.3
12.5°	5164.0	5067.4	4908.6	4814.2	4786.6	4800.4	4839.5	4897.1	4970.7	5014.4	5016.7
15°	5108.8	4996.0	4832.6	4749.8	4738.3	4756.7	4793.5	4837.2	4894.8	4938.5	4943.1
17.5°	5042.1	4924.7	4761.3	4676.2	4667.0	4676.2	4678.5	4701.5	4738.3	4779.7	4791.2
20°	4970.7	4851.1	4680.8	4595.6	4554.2	4517.4	4476.0	4480.6	4492.1	4533.5	4542.7
22.5°	4920.1	4800.4	4618.6	4501.3	4390.8	4280.3	4197.5	4186.0	4190.6	4225.1	4236.6
25°	4924.7	4798.1	4602.5	4400.0	4158.4	3981.2	3870.7	3852.3	3850.0	3875.3	3891.4
27.5°	5014.4	4887.9	4662.4	4296.5	3905.2	3642.9	3525.5	3511.7	3493.3	3500.2	3518.6
30°	5214.7	5097.3	4807.3	4190.6	3631.4	3311.5	3189.5	3175.7	3150.4	3138.9	3152.7
32.5°	5541.4	5444.8	5019.0	4089.3	3357.5	3028.5	2904.2	2874.3	2858.2	2844.4	2855.9
35°	6084.5	6043.1	5302.1	3978.9	3115.9	2809.8	2697.1	2651.1	2628.0	2653.4	2671.8
37.5°	6936.0	6959.0	5672.6	3806.3	2929.5	2664.9	2570.5	2517.6	2483.1	2503.8	2524.5
40°	8141.9	8158.0	6082.2	3562.4	2768.4	2579.7	2478.5	2430.1	2381.8	2345.0	2342.7
42.5°	9725.1	9561.7	6485.0	3297.7	2582.0	2526.8	2414.0	2354.2	2280.5	2179.3	2158.6
45°	11603.0	11029.9	6791.0	2993.9	2372.6	2462.3	2342.7	2259.8	2144.8	2034.3	2022.8
47.5°	13766.1	12606.3	6940.6	2678.7	2177.0	2368.0	2255.2	2124.1	1979.1	1923.9	1916.9
50°	16408.0	14477.2	7011.9	2372.6	2006.7	2243.7	2128.7	1974.5	1852.5	1841.0	1834.1
52.5°	19415.7	16727.9	7035.0	2121.8	1866.3	2082.6	2025.1	1875.5	1778.9	1788.1	1788.1
55°	22563.9	19052.1	6722.0	1940.0	1737.5	1916.9	1956.1	1836.4	1755.9	1792.7	1806.5
57.5°	25454.2	21111.8	5737.0	1799.6	1615.5	1790.4	1930.8	1873.2	1818.0	1967.6	1976.8
60°	27672.6	22329.1	4284.9	1673.0	1525.7	1746.7	1997.5	2013.6	2027.4	2384.1	2432.4
62.5°	28137.5	21924.1	2945.6	1574.1	1484.3	1783.5	2119.5	2121.8	2105.7	2354.2	2384.1
65°	26004.2	19362.8	2142.5	1518.8	1449.8	1850.2	2223.0	2174.7	2068.8	2257.5	2202.3
67.5°	20651.5	14587.7	1783.5	1477.4	1399.2	1845.6	2333.5	2223.0	2048.1	2211.5	2121.8
70°	13404.8	8820.7	1587.9	1442.9	1339.3	1758.2	2397.9	2218.4	1988.3	2057.3	1951.5
72.5°	6540.2	3944.4	1456.7	1392.3	1277.2	1636.2	2395.6	2177.0	1926.2	1921.6	1864.0
75°	2559.0	1806.5	1337.0	1316.3	1171.3	1498.1	2331.2	2117.2	1852.5	1778.9	1758.2
77.5°	1498.1	1288.7	1185.1	1203.6	1044.8	1360.0	2236.8	2013.6	1751.3	1663.8	1640.8
80°	1090.8	964.2	1010.3	1040.2	892.9	1222.0	2110.3	1887.0	1638.5	1682.2	1650.0
82.5°	699.6	621.3	819.2	849.2	743.3	1081.6	1972.2	1753.6	1479.7	1343.9	1311.7
85°	356.7	393.5	609.8	646.7	573.0	888.3	1804.2	1576.4	1300.2	1118.4	1136.8
87.5°	200.2	269.2	388.9	434.9	405.0	683.5	1463.6	1300.2	1060.9	863.0	759.4
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)