

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: P318321

Luminaire Tested: **GAN-SA7B-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33811 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

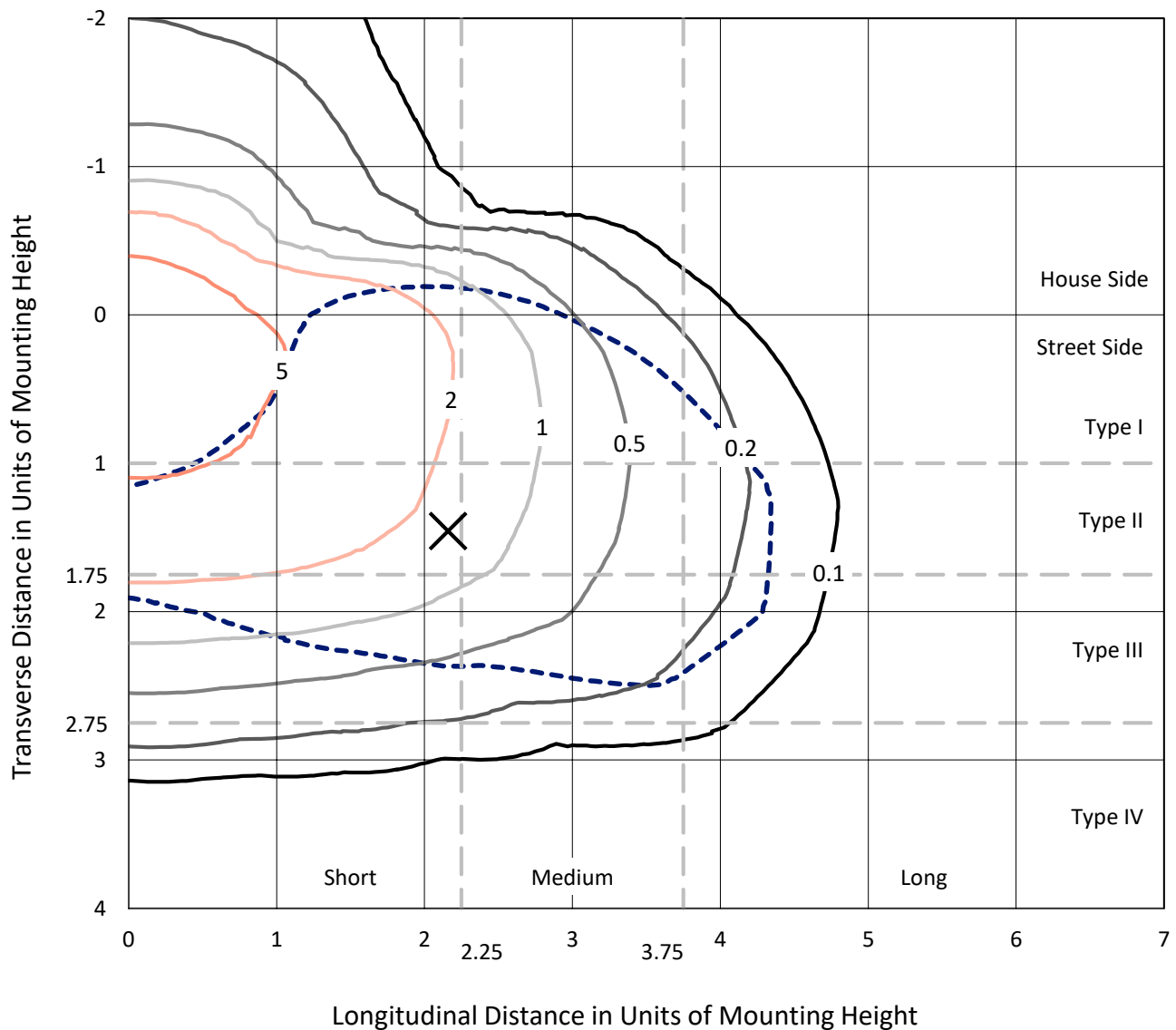
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

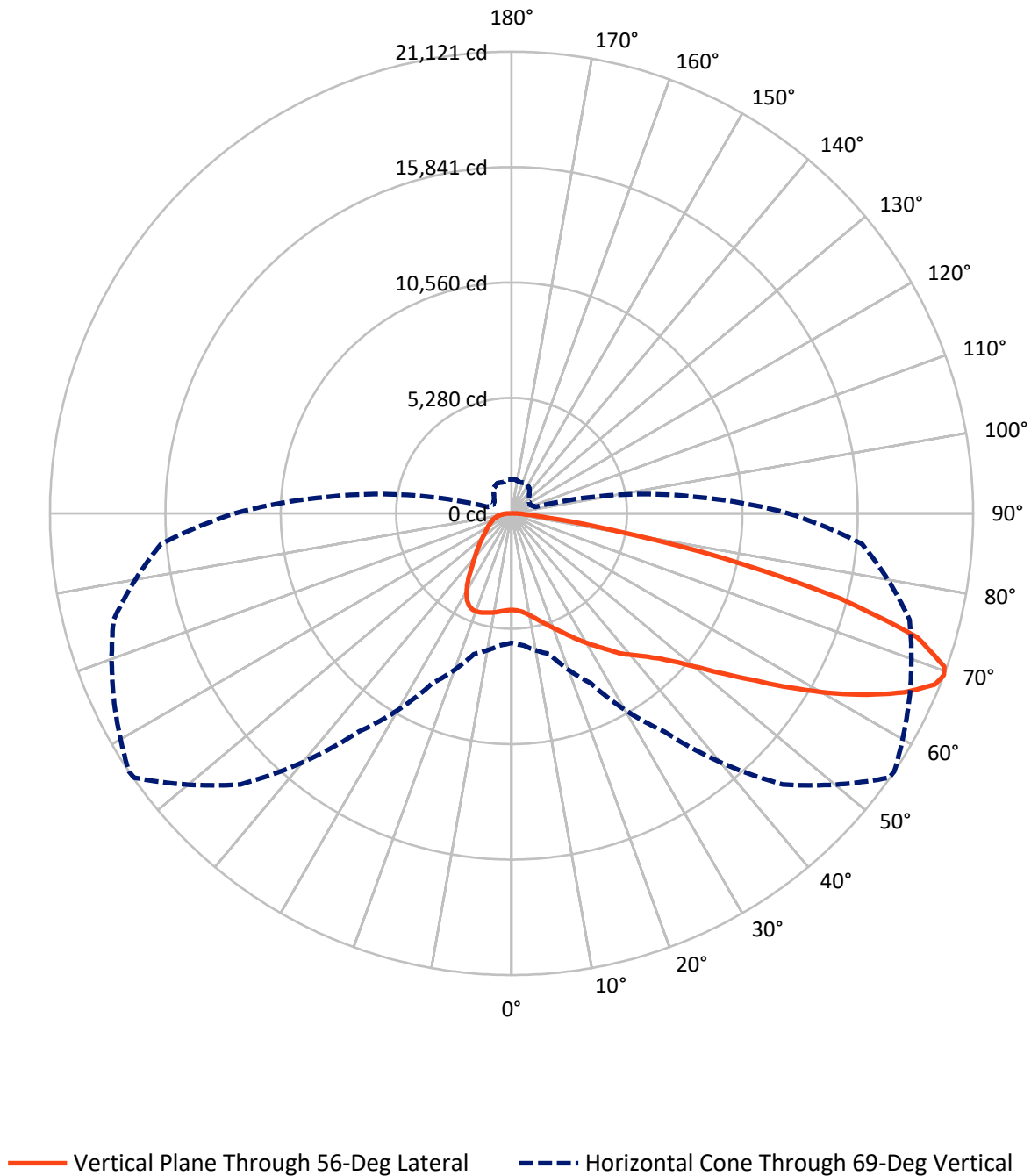
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7529.7	0.0	7529.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26281.3	0.0	26281.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	33811.0	0.0	33811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	1.3
10°-20°	1396.0	4.1
20°-30°	2436.9	7.2
30°-40°	3500.6	10.4
40°-50°	4844.6	14.3
50°-60°	7098.0	21.0
60°-70°	8653.8	25.6
70°-80°	4784.4	14.2
80°-90°	662.6	2.0
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°	33811.0	100.0
0°-180°	33811.0	100.0

Coefficient of Utilization



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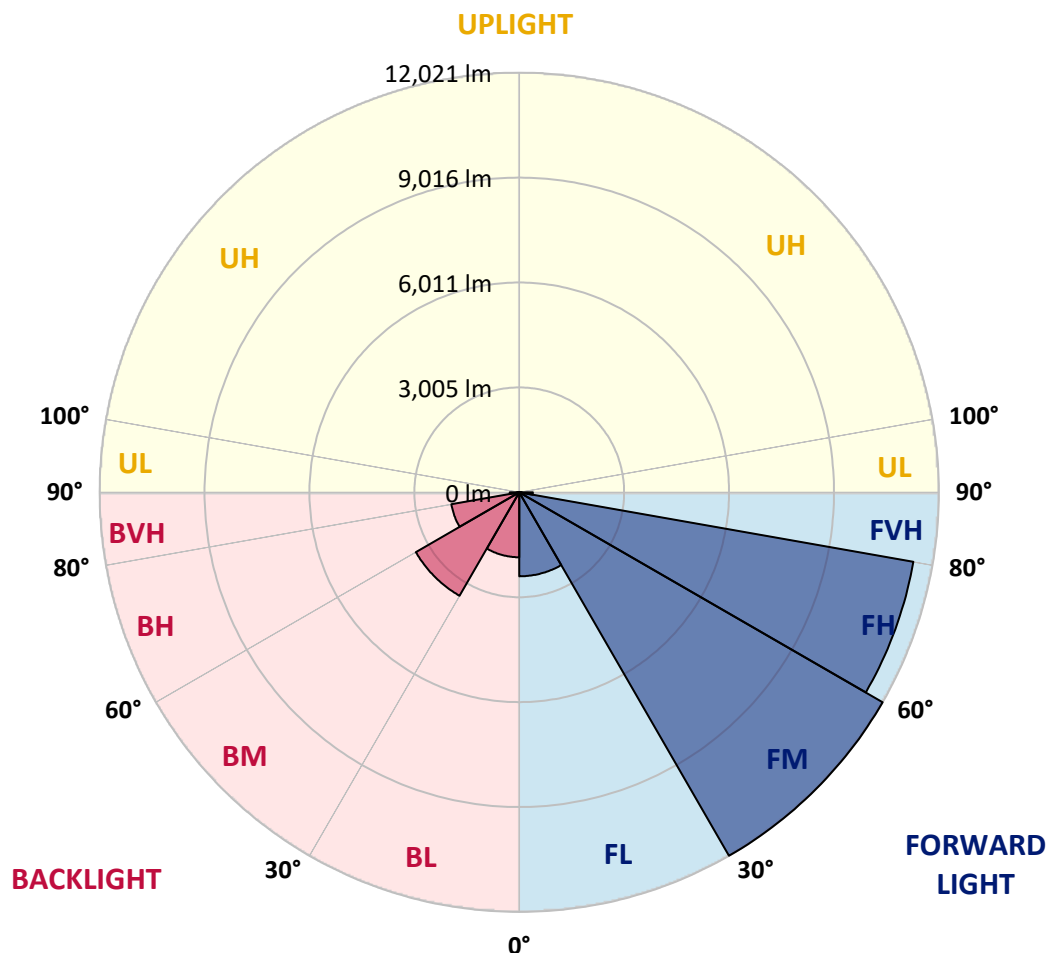
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2406.3	7.1			
FM	(30°-60°)	12021.1	35.6			
FH	(60°-80°)	11463.6	33.9			G4/12000
FVH	(80°-90°)	390.3	1.2			G3/500
BL	(0°-30°)	1860.7	5.5	B3/2500		
BM	(30°-60°)	3422.1	10.1	B3/5000		
BH	(60°-80°)	1974.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	272.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3
2.5°	4448.2	4452.9	4449.4	4458.7	4448.2	4455.2	4449.4	4449.4	4445.9	4435.4	4423.8
5°	4518.1	4527.4	4521.6	4530.9	4518.1	4520.4	4510.0	4510.0	4499.5	4477.4	4454.1
7.5°	4627.6	4638.1	4633.4	4642.7	4625.3	4625.3	4611.3	4610.1	4589.2	4553.1	4526.3
10°	4758.1	4772.0	4767.4	4781.4	4767.4	4772.0	4758.1	4758.1	4730.1	4678.9	4645.1
12.5°	4947.9	4965.4	4952.6	4951.4	4945.6	4954.9	4943.3	4940.9	4915.3	4845.4	4798.8
15°	5201.8	5220.5	5193.7	5191.4	5158.7	5155.2	5155.2	5151.8	5135.4	5051.6	4974.7
17.5°	5494.2	5500.0	5476.7	5439.4	5397.5	5370.7	5367.2	5376.6	5376.6	5278.7	5156.4
20°	5780.7	5791.2	5772.6	5730.6	5677.1	5637.5	5609.5	5628.1	5627.0	5510.5	5336.9
22.5°	6092.9	6117.3	6089.4	6035.8	5972.9	5928.6	5879.7	5896.0	5897.2	5753.9	5514.0
25°	6497.1	6474.9	6457.5	6381.7	6292.1	6246.6	6201.2	6217.5	6212.9	6016.0	5696.9
27.5°	6854.6	6859.3	6836.0	6755.6	6652.0	6551.8	6549.5	6560.0	6542.5	6288.6	5869.2
30°	7270.5	7272.8	7240.2	7168.0	7055.0	6925.7	6895.4	6912.9	6875.6	6547.1	6050.9
32.5°	7683.9	7695.6	7659.5	7572.1	7481.3	7324.0	7263.5	7275.1	7181.9	6811.5	6238.5
35°	8046.2	8062.5	8050.8	7992.6	7893.6	7758.5	7686.3	7679.3	7564.0	7135.3	6486.6
37.5°	8415.4	8430.6	8417.7	8368.8	8329.2	8186.0	8147.5	8147.5	7947.2	7466.1	6802.2
40°	8795.1	8818.4	8803.3	8735.7	8702.0	8636.7	8544.7	8522.6	8305.9	7863.3	7317.0
42.5°	9148.1	9178.3	9238.9	9199.3	9130.6	9139.9	8954.7	8943.1	8784.6	8450.4	7963.5
45°	9648.9	9693.2	9795.7	9765.4	9751.4	9700.2	9480.0	9469.5	9409.0	9240.1	8766.0
47.5°	10195.2	10255.7	10440.9	10446.8	10597.0	10500.3	10201.0	10164.9	10178.9	10185.9	9745.6
50°	10698.4	10764.7	11068.8	11212.0	11566.1	11587.1	11108.4	11075.7	11130.5	11291.2	10887.0
52.5°	11100.2	11184.1	11563.8	12006.4	12613.2	12785.6	12225.4	12200.9	12241.7	12518.9	12177.6
55°	11394.9	11485.7	11899.2	12705.2	13674.3	13978.3	13511.3	13488.0	13513.6	13866.5	13581.1
57.5°	11463.6	11485.7	12085.6	13175.8	14570.0	15300.3	15084.9	15038.3	14912.5	15220.0	15130.3
60°	11141.0	11229.5	11931.8	13341.2	15263.1	16603.7	16729.5	16671.3	16318.3	16569.9	16497.7
62.5°	10486.4	10644.8	11357.6	13089.6	15534.5	17668.3	18342.7	18272.8	17664.8	17827.9	17480.8
65°	9417.1	9484.7	10233.6	12221.9	15189.7	18349.7	19781.2	19746.2	18981.0	18725.9	17662.5
67.5°	7504.6	7631.5	8267.5	10408.3	13779.2	18269.3	20893.5	20890.0	19840.6	19059.0	17018.4
69°	5928.6	6060.3	6665.9	8573.8	12192.7	17534.4	21079.9	21120.7	20082.9	18856.4	16098.2
70°	4726.6	4879.2	5295.0	7221.5	10784.5	16565.3	20925.0	20998.4	20036.3	18522.1	15249.1
72.5°	2011.5	2135.0	2430.9	3722.6	6572.8	12369.8	19132.4	19409.6	18956.5	16952.0	12602.7
75°	878.2	916.7	1050.6	1517.7	2917.7	6732.3	14988.2	15500.7	16208.9	14328.9	9388.0
77.5°	642.9	659.3	732.6	891.0	1309.2	2542.7	9638.4	9936.6	11689.6	10427.0	5758.6
80°	497.4	509.0	566.1	654.6	854.9	1028.5	4395.8	4652.1	6572.8	5355.6	2398.2
82.5°	396.0	404.2	443.8	482.2	590.5	623.1	1459.4	1619.0	2426.2	1479.3	634.8
85°	368.1	377.4	391.4	351.8	378.5	365.7	631.3	660.4	732.6	581.2	265.6
87.5°	166.6	196.8	387.9	273.7	201.5	160.7	258.6	270.2	304.0	305.2	117.6
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°	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3	4420.3
2.5°	4430.8	4427.3	4433.1	4419.1	4436.6	4435.4	4429.6	4431.9	4443.6	4442.4	4443.6
5°	4457.6	4455.2	4462.2	4451.7	4472.7	4479.7	4480.8	4491.3	4504.1	4507.6	4507.6
7.5°	4525.1	4525.1	4528.6	4514.6	4528.6	4527.4	4521.6	4532.1	4544.9	4546.1	4544.9
10°	4641.6	4642.7	4636.9	4600.8	4589.2	4557.7	4528.6	4529.8	4546.1	4558.9	4562.4
12.5°	4788.3	4783.7	4758.1	4691.7	4642.7	4578.7	4548.4	4547.2	4563.5	4574.0	4577.5
15°	4956.1	4943.3	4876.9	4768.5	4682.4	4619.5	4570.5	4558.9	4549.6	4537.9	4539.1
17.5°	5114.5	5085.4	4974.7	4824.5	4733.6	4649.7	4555.4	4479.7	4427.3	4397.0	4387.7
20°	5275.2	5218.1	5058.6	4876.9	4761.6	4609.0	4427.3	4273.5	4178.0	4133.7	4125.6
22.5°	5422.0	5330.0	5136.6	4931.6	4739.4	4471.5	4186.2	3962.5	3829.7	3770.3	3775.0
25°	5565.2	5437.1	5218.1	4970.0	4627.6	4229.3	3850.7	3575.8	3422.1	3355.7	3353.4
27.5°	5691.0	5545.4	5306.7	4938.6	4419.1	3884.5	3453.5	3185.6	3057.5	3000.4	2991.1
30°	5835.5	5681.7	5424.3	4818.6	4113.9	3486.1	3065.7	2877.0	2786.1	2729.0	2718.6
32.5°	6011.3	5866.9	5521.0	4600.8	3723.8	3070.3	2762.8	2631.2	2548.5	2484.4	2472.8
35°	6267.6	6111.5	5545.4	4288.7	3295.1	2741.9	2540.4	2405.2	2293.4	2210.7	2202.6
37.5°	6589.1	6417.8	5489.5	3884.5	2879.3	2528.7	2355.2	2188.6	2043.0	1926.5	1907.9
40°	7052.6	6794.1	5334.6	3418.6	2573.0	2364.5	2174.6	1984.8	1804.2	1667.9	1641.2
42.5°	7609.4	7235.5	5097.0	2955.0	2348.2	2197.9	1995.2	1760.0	1587.6	1490.9	1476.9
45°	8317.6	7694.4	4767.4	2549.7	2126.9	2031.3	1801.9	1585.2	1478.1	1407.0	1395.4
47.5°	9125.9	8209.3	4421.4	2220.0	1939.3	1875.3	1647.0	1507.2	1422.2	1366.3	1355.8
50°	10119.5	8790.5	4054.5	1949.8	1750.6	1687.7	1573.6	1464.1	1396.6	1353.5	1343.0
52.5°	11240.0	9446.2	3790.1	1736.7	1594.6	1549.1	1535.2	1440.8	1386.1	1353.5	1343.0
55°	12446.7	10113.6	3504.8	1557.3	1459.4	1472.3	1509.5	1443.1	1405.9	1366.3	1351.1
57.5°	13654.5	10803.2	3186.8	1405.9	1352.3	1415.2	1492.1	1447.8	1416.4	1377.9	1363.9
60°	14609.6	11240.0	2694.1	1278.9	1267.3	1352.3	1450.1	1412.9	1372.1	1373.3	1370.9
62.5°	15055.7	11216.7	2150.2	1165.9	1182.2	1267.3	1382.6	1358.1	1324.3	1369.8	1373.3
65°	14805.3	10657.6	1673.8	1063.4	1091.4	1178.7	1312.7	1331.3	1343.0	1430.3	1442.0
67.5°	13754.7	9569.7	1296.4	973.7	1008.7	1118.2	1319.7	1450.1	1465.3	1557.3	1556.1
69°	12668.0	8549.4	1126.3	927.2	967.9	1133.3	1410.5	1525.8	1468.8	1566.6	1552.6
70°	11757.1	7742.2	1035.5	895.7	949.3	1160.1	1471.1	1524.7	1451.3	1535.2	1511.9
72.5°	9054.9	5569.9	878.2	837.5	886.4	1110.0	1488.6	1490.9	1410.5	1426.8	1387.2
75°	6210.5	3519.9	766.4	758.3	790.9	1000.5	1432.7	1424.5	1304.5	1281.2	1248.6
77.5°	3424.4	1787.9	651.1	682.6	704.7	886.4	1302.2	1290.6	1191.6	1142.6	1131.0
80°	1320.8	782.7	549.8	606.8	620.8	767.6	1141.5	1131.0	1048.3	985.4	967.9
82.5°	498.5	410.0	454.3	525.3	520.6	633.6	966.8	960.9	880.6	788.5	760.6
85°	230.6	245.8	359.9	433.3	399.5	469.4	773.4	783.9	686.0	576.6	576.6
87.5°	97.8	137.4	255.1	327.3	269.1	316.8	567.2	541.6	497.4	344.8	323.8
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)