

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: P320132

Luminaire Tested: **GAN-SA8C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39596 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

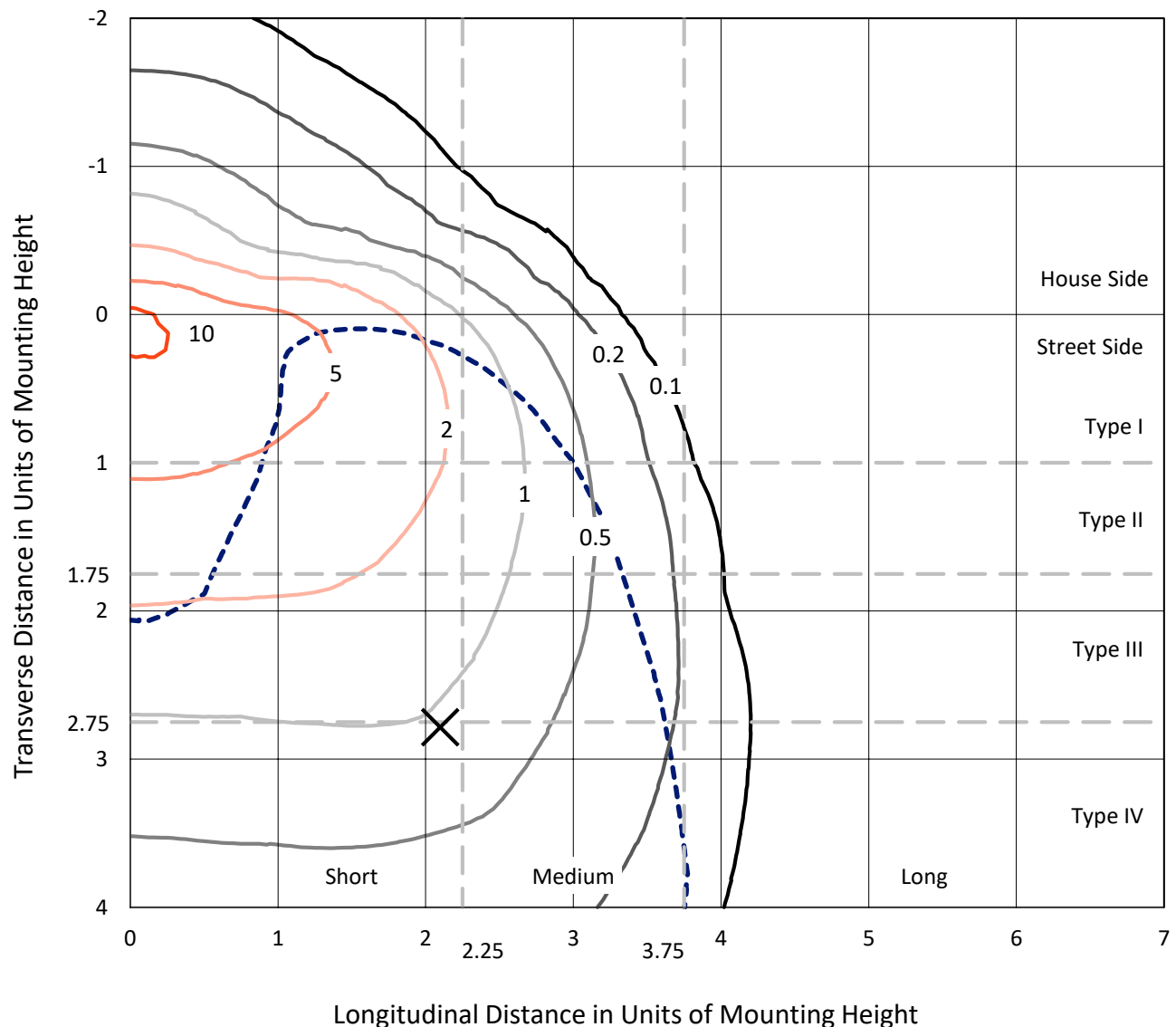


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Iso-Footcandle Lines of Horizontal Illumination

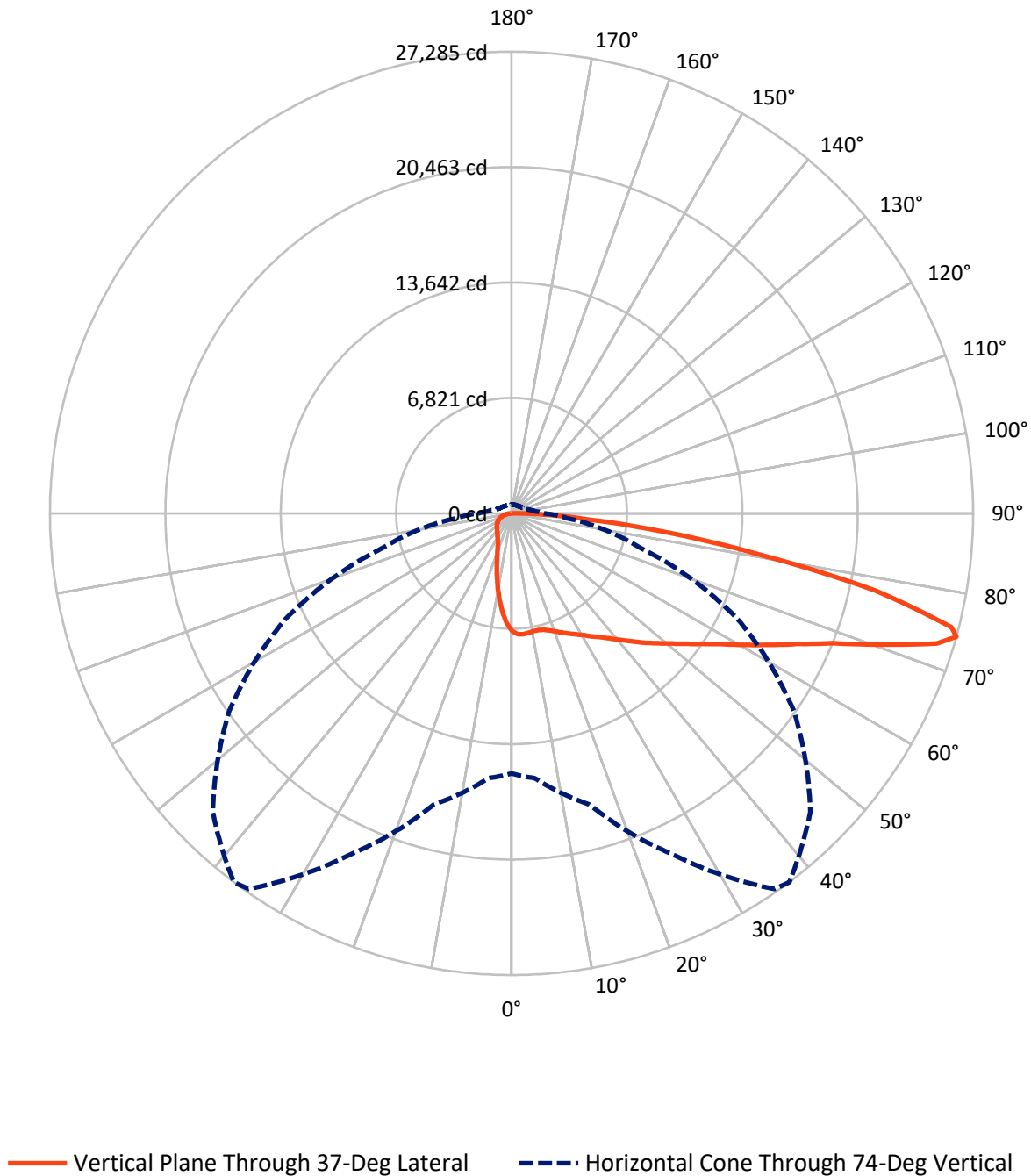
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	5448.1	0.0	5448.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	34147.9	0.0	34147.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	39596.0	0.0	39596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.4	1.6
10°-20°	1574.8	4.0
20°-30°	2426.5	6.1
30°-40°	3528.4	8.9
40°-50°	5193.3	13.1
50°-60°	7293.0	18.4
60°-70°	9230.7	23.3
70°-80°	8128.0	20.5
80°-90°	1607.1	4.1
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°	39596.0	100.0
0°-180°	39596.0	100.0

Coefficient of Utilization



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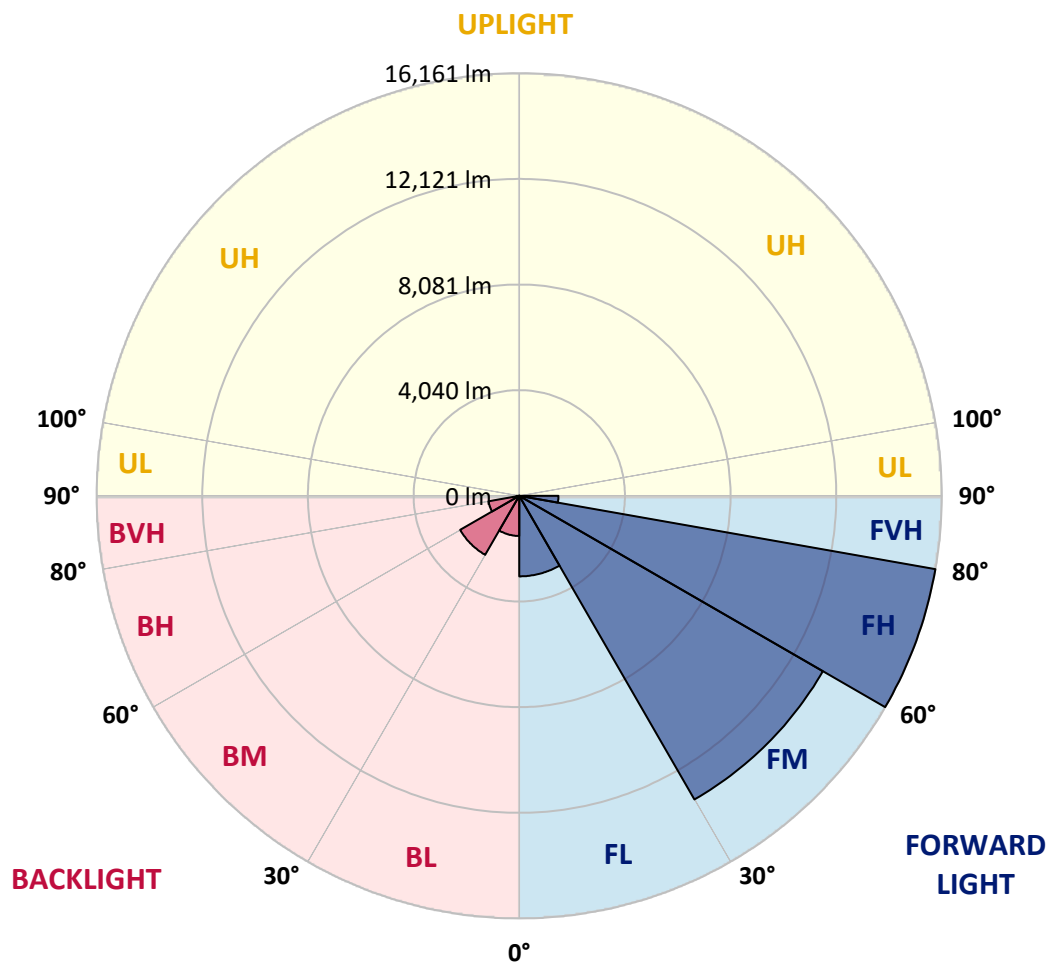
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3081.0	7.8			
FM	(30°-60°)	13407.5	33.9			
FH	(60°-80°)	16161.1	40.8			G5
FVH	(80°-90°)	1498.2	3.8			G5
BL	(0°-30°)	1534.6	3.9	B3/2500		
BM	(30°-60°)	2607.1	6.6	B3/5000		
BH	(60°-80°)	1197.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	108.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7
2.5°	7215.2	7216.6	7215.2	7204.0	7177.5	7155.2	7137.1	7110.6	7052.0	7007.3	6940.4
5°	7283.5	7275.1	7269.6	7248.6	7206.8	7181.7	7146.8	7096.6	7000.4	6911.1	6802.3
7.5°	7251.4	7241.7	7229.1	7204.0	7156.6	7135.7	7086.8	7021.3	6905.5	6788.4	6632.2
10°	7152.4	7149.6	7144.0	7138.5	7098.0	7081.3	7036.6	6966.9	6852.5	6710.3	6527.5
12.5°	7042.2	7049.2	7071.5	7100.8	7082.7	7074.3	7046.4	6999.0	6881.8	6728.4	6508.0
15°	6972.5	6992.0	7052.0	7128.7	7144.0	7141.2	7134.3	7103.6	6979.5	6809.3	6552.7
17.5°	6948.8	6980.8	7095.2	7222.1	7266.8	7276.5	7279.3	7226.3	7088.2	6908.3	6598.7
20°	6992.0	7032.5	7199.8	7374.2	7445.3	7450.9	7438.3	7346.3	7191.5	6993.4	6623.8
22.5°	7123.1	7159.4	7368.6	7565.3	7646.2	7654.5	7616.9	7477.4	7300.2	7093.8	6658.7
25°	7375.6	7420.2	7629.4	7826.1	7867.9	7869.3	7814.9	7642.0	7442.5	7234.7	6734.0
27.5°	7704.7	7749.4	7937.7	8130.1	8107.8	8095.3	8021.3	7848.4	7628.0	7428.6	6867.9
30°	8071.6	8120.4	8298.9	8435.6	8382.6	8357.5	8297.5	8074.3	7886.1	7693.6	7072.9
32.5°	8450.9	8495.6	8651.8	8745.2	8678.3	8667.1	8576.5	8372.8	8222.2	8098.1	7404.9
35°	8840.1	8872.2	9025.6	9078.6	8989.3	8986.5	8961.4	8774.5	8679.7	8738.3	7887.4
37.5°	9237.6	9246.0	9377.1	9379.9	9353.4	9364.5	9391.0	9273.9	9300.4	9483.1	8515.1
40°	9591.9	9614.2	9709.0	9738.3	9784.3	9823.4	9955.9	9879.2	10084.2	10407.8	9296.2
42.5°	9854.1	9897.3	10049.3	10124.7	10273.9	10335.3	10522.2	10593.3	11006.2	11491.5	10225.1
45°	10075.9	10142.8	10386.9	10541.7	10794.2	10901.6	11169.4	11407.9	12048.1	12667.3	11202.8
47.5°	10315.8	10400.8	10706.3	11002.0	11345.1	11466.4	11953.2	12310.3	13159.7	13850.1	12124.8
50°	10668.6	10734.2	11032.7	11497.1	11925.3	12081.5	12755.2	13267.1	14289.5	14977.1	12924.0
52.5°	11161.0	11135.9	11388.3	12039.7	12614.3	12806.8	13611.6	14285.3	15434.6	15996.7	13599.1
55°	11656.1	11614.3	11791.4	12607.4	13417.7	13620.0	14554.5	15307.6	16523.9	16914.4	14116.5
57.5°	12207.1	12127.6	12276.8	13247.6	14332.7	14574.0	15610.3	16394.2	17595.1	17656.4	14445.7
60°	12774.7	12667.3	12834.7	14041.2	15494.5	15779.1	16846.1	17454.2	18604.9	18250.6	14551.7
62.5°	13271.3	13196.0	13454.0	14926.9	16804.2	17116.7	18059.5	18581.2	19600.8	18497.5	14169.5
65°	13705.1	13717.6	14163.9	15922.7	18264.6	18597.9	19451.5	19970.4	20384.6	18351.0	13275.5
67.5°	14222.5	14293.6	15055.2	17233.8	20102.9	20468.3	21476.7	21485.1	20822.6	17491.9	11515.3
70°	14977.1	15123.5	16281.2	19052.6	22716.7	23218.8	23997.1	22375.0	20207.5	15162.6	9060.5
72.5°	15646.6	15920.0	17585.3	21133.6	25902.4	26283.1	25471.4	21861.7	17636.9	11363.2	5644.7
74°	15374.6	15713.5	17822.4	22158.8	27101.9	27284.6	24973.4	20363.7	14705.1	7869.3	3280.5
75°	14788.8	15157.0	17476.5	22149.0	26949.8	26848.0	23771.1	18652.3	12110.8	5367.1	2182.8
77.5°	11935.1	12324.2	14726.0	18982.9	22097.4	22001.2	18260.4	12512.5	5304.3	1760.2	1108.8
80°	6939.0	7236.1	9141.4	12055.0	14900.4	15074.7	12009.0	6191.4	2086.6	988.9	751.8
82.5°	3082.5	3287.5	4415.9	6153.7	8992.1	9216.7	6289.0	3244.2	1288.8	601.1	451.9
85°	2022.4	2174.5	2680.8	2930.4	4282.0	4435.4	3078.3	2525.9	850.8	330.6	332.0
87.5°	1454.7	1601.2	1991.7	1739.3	1965.2	1860.6	1675.1	2337.6	341.7	188.3	111.6
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°	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7	6976.7
2.5°	6911.1	6888.8	6838.6	6743.7	6690.7	6646.1	6572.2	6528.9	6509.4	6508.0	6516.4
5°	6739.6	6687.9	6558.2	6399.2	6272.3	6156.5	6012.9	5926.4	5865.0	5828.8	5838.5
7.5°	6540.1	6459.2	6255.6	6001.7	5798.1	5573.5	5351.7	5219.2	5116.0	5039.3	5053.3
10°	6403.4	6291.8	5994.7	5629.3	5290.4	4964.0	4658.5	4475.8	4330.8	4219.2	4227.6
12.5°	6357.4	6206.7	5795.3	5307.1	4831.5	4385.2	3986.3	3705.9	3556.7	3429.8	3439.5
15°	6364.4	6162.1	5627.9	5017.0	4418.6	3856.6	3372.6	3044.8	2842.6	2754.7	2756.1
17.5°	6369.9	6110.5	5452.2	4706.0	4010.0	3362.8	2837.0	2505.0	2313.9	2233.0	2234.4
20°	6351.8	6026.8	5234.6	4348.9	3583.2	2909.5	2400.4	2118.7	1973.6	1910.8	1910.8
22.5°	6328.1	5927.8	4989.1	3990.4	3162.0	2516.2	2088.0	1873.2	1789.5	1747.7	1746.3
25°	6339.2	5853.9	4738.0	3622.2	2774.2	2202.3	1880.2	1737.9	1682.1	1655.6	1654.2
27.5°	6399.2	5819.0	4506.5	3255.4	2435.3	1966.6	1740.7	1640.3	1604.0	1587.3	1587.3
30°	6508.0	5819.0	4265.2	2943.0	2153.5	1792.3	1633.3	1564.9	1539.8	1528.7	1528.7
32.5°	6697.7	5851.1	4032.3	2633.3	1929.0	1655.6	1544.0	1498.0	1478.5	1472.9	1472.9
35°	7024.1	5959.9	3804.9	2340.4	1747.7	1544.0	1458.9	1432.4	1418.5	1417.1	1421.3
37.5°	7483.0	6181.6	3591.5	2124.2	1619.3	1453.4	1387.8	1366.9	1358.5	1365.5	1371.1
40°	8060.4	6482.9	3397.7	1929.0	1521.7	1380.8	1322.2	1308.3	1304.1	1313.9	1322.2
42.5°	8757.8	6890.2	3238.7	1788.1	1446.4	1319.5	1266.5	1249.7	1245.5	1256.7	1267.8
45°	9512.4	7328.1	3127.1	1683.5	1387.8	1273.4	1217.6	1199.5	1191.1	1196.7	1209.3
47.5°	10198.6	7742.4	3082.5	1609.6	1332.0	1234.4	1174.4	1152.1	1138.1	1135.3	1145.1
50°	10777.4	8050.6	3103.4	1564.9	1287.4	1191.1	1132.6	1107.5	1086.5	1074.0	1081.0
52.5°	11198.6	8244.5	3122.9	1545.4	1252.5	1143.7	1086.5	1062.8	1034.9	1014.0	1014.0
55°	11504.1	8289.1	3079.7	1530.1	1226.0	1092.1	1034.9	1012.6	984.7	961.0	958.2
57.5°	11624.1	8163.6	2919.3	1507.8	1207.9	1043.3	980.5	963.8	940.1	912.2	910.8
60°	11462.3	7775.9	2609.6	1460.3	1184.2	1002.8	926.1	915.0	903.8	877.3	875.9
62.5°	10812.3	6925.1	2209.3	1364.1	1136.7	959.6	875.9	881.5	882.9	864.8	862.0
65°	9633.7	5756.2	1818.8	1238.6	1065.6	908.0	824.3	850.8	866.2	863.4	859.2
67.5°	7920.9	4480.0	1541.2	1106.1	972.2	836.9	768.5	799.2	811.8	821.5	818.7
70°	5879.0	3159.2	1274.8	966.6	859.2	753.2	696.0	711.3	703.0	714.1	718.3
72.5°	3277.7	1895.5	1039.1	827.1	742.0	655.5	615.1	612.3	594.2	594.2	594.2
74°	1966.6	1390.6	913.6	740.6	670.9	591.4	556.5	544.0	527.2	528.6	527.2
75°	1581.7	1195.3	838.3	683.4	620.7	553.7	518.9	502.1	489.6	489.6	488.2
77.5°	998.7	908.0	675.1	544.0	496.5	456.1	432.4	410.1	410.1	408.7	407.3
80°	754.6	722.5	525.8	411.5	380.8	350.1	334.7	325.0	325.0	329.2	327.8
82.5°	517.5	544.0	369.6	287.3	272.0	249.7	246.9	248.3	244.1	238.5	237.1
85°	378.0	408.7	249.7	181.3	166.0	152.0	163.2	168.8	161.8	149.2	143.7
87.5°	145.1	267.8	133.9	75.3	69.7	60.0	69.7	72.5	78.1	61.4	62.8
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)