

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: P321089

Luminaire Tested: **GAN-SA5C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26661 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 279
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

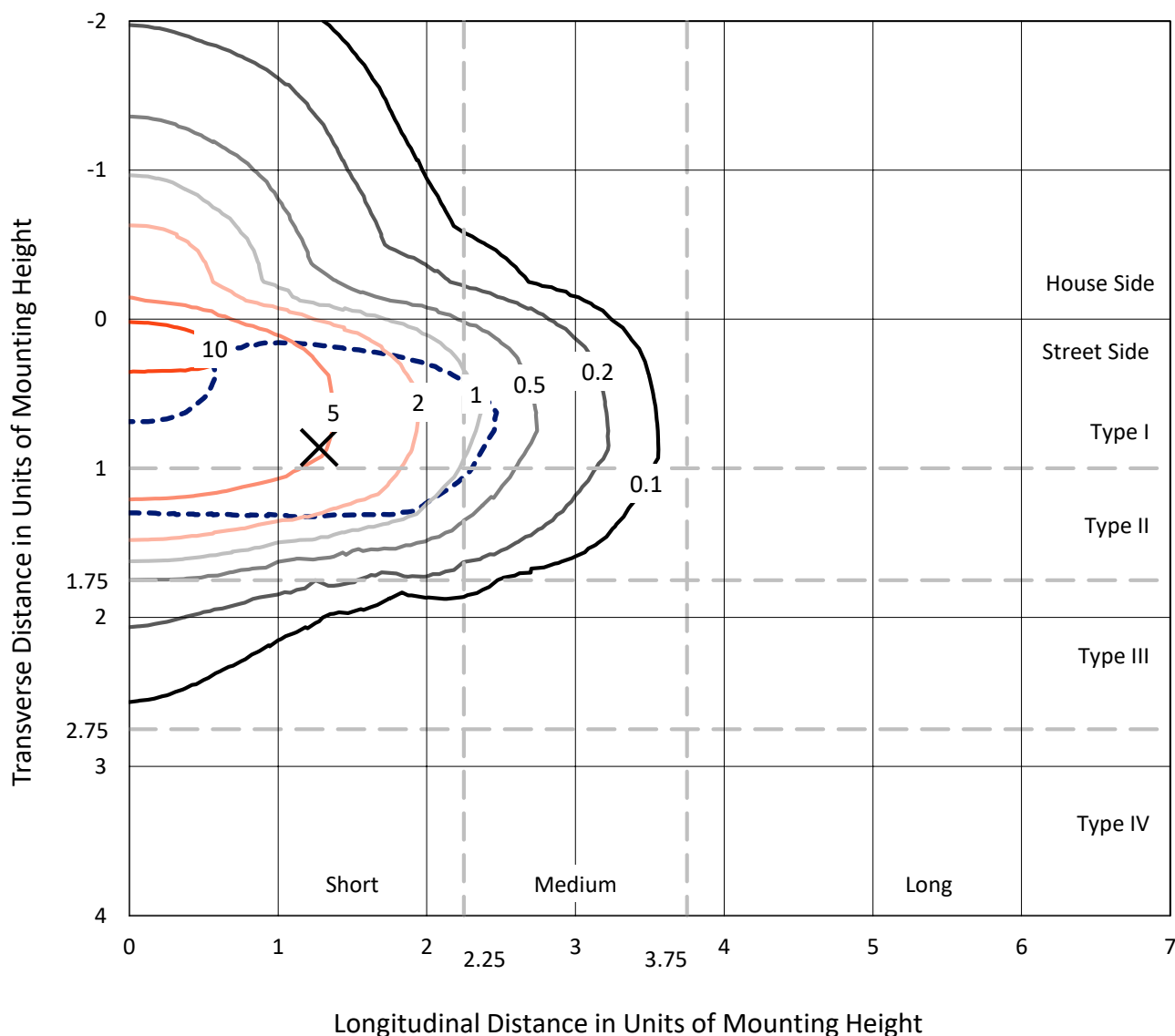


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

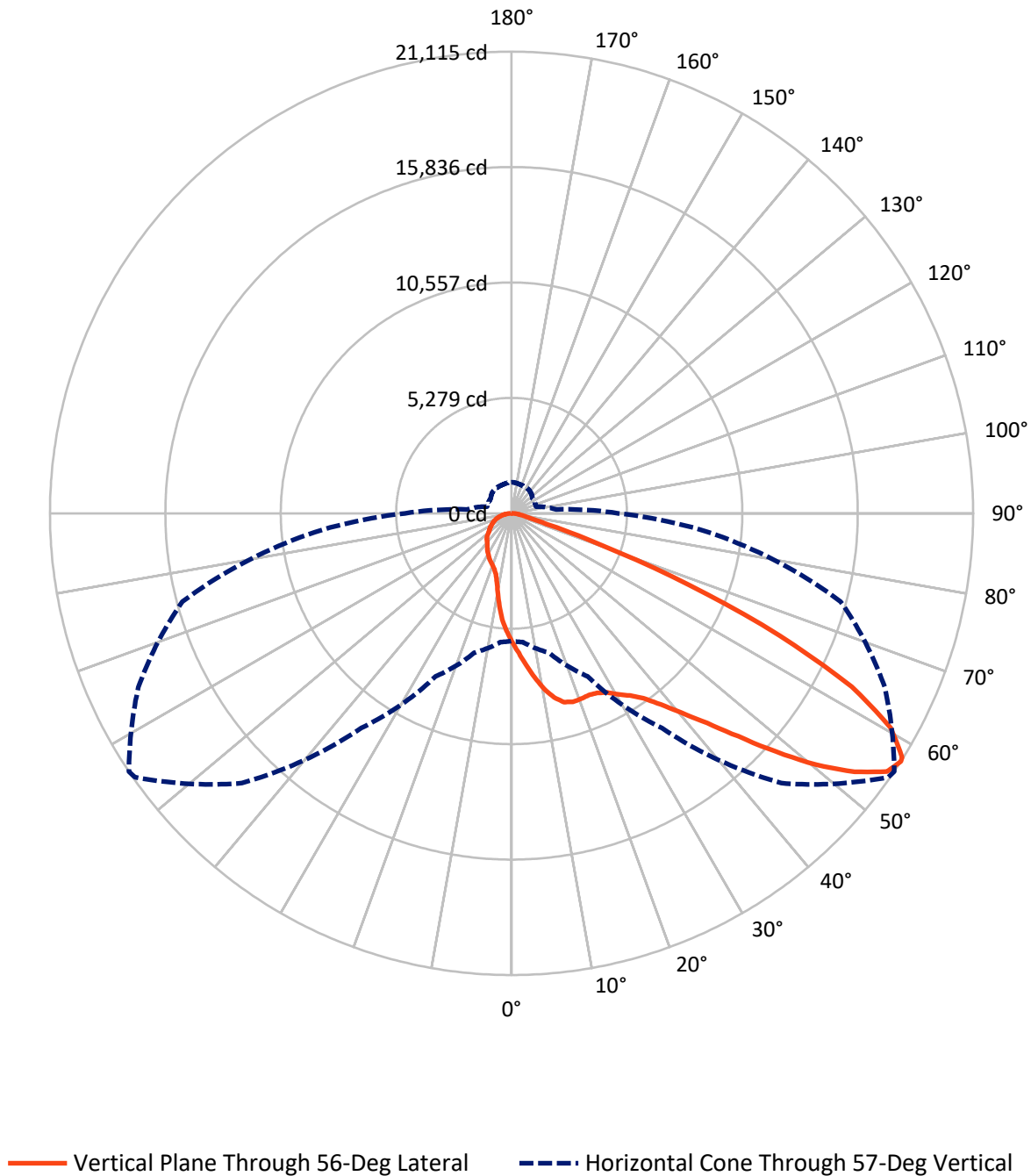
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4595.8	0.0	4595.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	22065.2	0.0	22065.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	26661.0	0.0	26661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.9	2.1
10°-20°	1597.0	6.0
20°-30°	2601.3	9.8
30°-40°	3888.6	14.6
40°-50°	5898.2	22.1
50°-60°	6610.9	24.8
60°-70°	3904.6	14.6
70°-80°	1279.3	4.8
80°-90°	316.1	1.2
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°	26661.0	100.0
0°-180°	26661.0	100.0

Coefficient of Utilization



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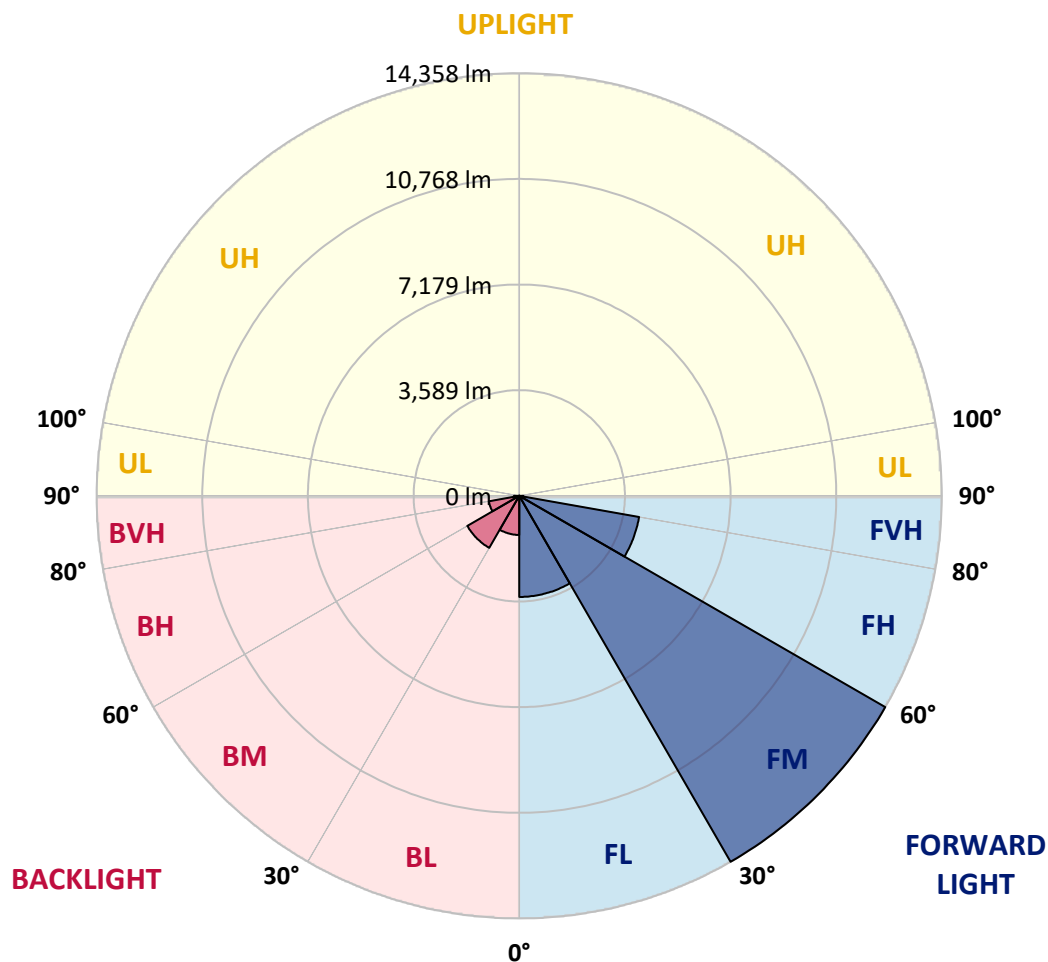
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3434.3	12.9			
FM	(30°-60°)	14357.8	53.9			
FH	(60°-80°)	4133.9	15.5			G2/5000
FVH	(80°-90°)	139.2	0.5			G2/225
BL	(0°-30°)	1328.9	5.0	B3/2500		
BM	(30°-60°)	2039.9	7.7	B2/2500		
BH	(60°-80°)	1050.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	176.9	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4
2.5°	6790.3	6852.6	6825.1	6729.8	6656.5	6553.0	6437.5	6402.7	6280.8	6144.3	5980.3
5°	7865.0	7833.9	7789.0	7640.6	7483.9	7301.5	7012.0	6966.2	6695.0	6386.2	6060.0
7.5°	8477.1	8474.3	8447.8	8360.7	8217.8	7979.6	7630.5	7576.4	7166.9	6670.3	6164.5
10°	8388.2	8381.8	8425.8	8516.5	8559.5	8510.1	8216.0	8161.9	7658.9	6984.5	6285.4
12.5°	7883.4	7887.0	7957.6	8148.2	8407.4	8719.0	8671.3	8644.8	8169.2	7340.0	6432.0
15°	7490.3	7498.5	7554.4	7720.3	8026.3	8591.6	8948.0	8957.2	8663.1	7732.2	6603.4
17.5°	7318.0	7335.4	7361.1	7477.5	7757.8	8337.8	9014.0	9063.5	9095.5	8139.0	6768.3
20°	7373.0	7389.5	7396.8	7471.0	7701.0	8183.9	8968.2	9057.1	9427.2	8522.0	6933.2
22.5°	7619.5	7629.6	7634.1	7653.4	7832.0	8227.9	8938.0	9031.4	9667.3	8865.6	7057.8
25°	8028.1	8020.8	7991.5	7966.7	8086.8	8402.0	9007.6	9096.5	9862.4	9177.1	7139.4
27.5°	8517.4	8508.2	8451.4	8383.6	8452.3	8673.2	9208.2	9278.8	10037.4	9468.5	7180.6
30°	9104.7	9080.9	8973.7	8893.1	8919.6	9080.0	9539.0	9603.1	10307.7	9799.2	7220.9
32.5°	9783.6	9758.0	9603.1	9469.4	9469.4	9603.1	9879.9	9933.0	10536.8	10173.0	7286.0
35°	10633.9	10601.9	10400.3	10175.8	10112.6	10180.4	10344.4	10382.0	10949.1	10644.0	7404.2
37.5°	11636.3	11593.2	11332.1	11031.6	10893.2	10889.6	11007.7	11084.7	11607.9	11262.5	7604.8
40°	12641.4	12611.2	12383.0	12146.6	11875.4	11788.4	11970.7	11994.5	12469.2	12030.3	7861.4
42.5°	13418.4	13412.9	13370.7	13401.9	13124.3	12948.3	13091.3	13110.5	13521.0	12861.3	8134.4
45°	13828.9	13838.0	14042.3	14495.0	14597.6	14469.3	14539.9	14545.4	14723.1	13699.7	8384.5
47.5°	13499.9	13547.6	14064.3	15076.8	15917.0	16343.0	16225.8	16293.6	15888.6	14419.8	8580.6
50°	12218.1	12276.7	13156.3	14817.5	16532.7	18156.3	18094.9	18079.3	16828.6	14947.6	8686.9
52.5°	10630.3	10676.1	11401.7	13469.7	16081.0	19158.6	19722.1	19641.5	17664.3	15342.5	8707.1
55°	8212.3	8283.8	8979.2	10779.6	14254.0	18775.7	20918.8	20846.4	18425.7	15549.6	8683.2
57°	5838.3	5913.4	6604.3	8226.9	11990.9	17449.9	21037.9	21114.8	18837.0	15584.4	8709.8
57.5°	5209.8	5286.7	5971.2	7547.1	11285.4	16970.7	20935.2	21063.5	18911.3	15578.9	8724.5
60°	2623.2	2652.5	3088.7	4212.9	7133.9	13719.8	19596.6	19927.4	18978.1	15309.5	8787.7
62.5°	1630.9	1609.8	1596.1	1940.6	3470.7	9098.3	16834.1	17470.9	17698.2	14657.1	8634.7
65°	1433.9	1394.5	1243.3	1215.9	1532.9	4419.0	12677.1	13469.7	14963.2	13629.1	8270.0
67.5°	1346.9	1308.4	1138.0	1035.4	1036.3	1751.9	7870.5	8763.0	11656.4	11891.0	7409.7
70°	1257.1	1222.3	1062.8	941.9	882.3	970.3	3621.0	4298.1	7598.4	9346.6	6192.9
72.5°	1141.6	1117.8	966.6	842.0	778.8	726.6	1386.3	1637.3	4398.9	6277.2	4300.8
75°	1020.7	998.7	869.5	750.4	673.4	571.7	780.6	841.1	2234.7	3211.4	2117.4
77.5°	887.8	875.0	773.3	663.4	602.0	473.7	552.5	581.8	958.4	1377.1	1061.9
80°	706.4	731.2	676.2	591.0	534.2	379.3	391.2	410.5	558.0	672.5	602.9
82.5°	460.0	503.0	529.6	480.1	439.8	298.7	281.3	289.5	363.7	410.5	262.0
85°	191.5	215.3	348.2	314.3	292.3	218.1	188.7	192.4	225.4	233.6	107.2
87.5°	85.2	90.7	153.0	143.9	123.7	75.1	80.6	88.0	120.0	113.6	41.2
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°	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4	5913.4
2.5°	5918.9	5842.0	5710.0	5564.3	5445.2	5349.9	5253.7	5187.8	5110.8	5069.6	5048.5
5°	5923.5	5772.3	5494.7	5209.8	4955.0	4722.3	4500.6	4330.2	4170.7	4084.6	4060.8
7.5°	5942.8	5715.5	5266.6	4797.4	4344.8	3931.6	3612.7	3413.0	3269.2	3205.0	3186.7
10°	5958.3	5648.6	4984.4	4289.9	3674.1	3255.4	3008.0	2896.2	2846.8	2838.5	2830.3
12.5°	5995.0	5579.9	4687.5	3760.3	3152.8	2863.3	2777.1	2769.8	2783.5	2803.7	2803.7
15°	6052.7	5512.1	4348.5	3305.8	2821.1	2719.4	2736.8	2777.1	2814.7	2845.9	2850.4
17.5°	6094.9	5428.7	3983.8	2942.1	2644.3	2671.8	2734.1	2790.9	2829.4	2859.6	2862.3
20°	6125.1	5299.6	3594.4	2664.4	2542.6	2627.8	2705.7	2756.1	2782.6	2812.9	2817.4
22.5°	6109.5	5126.4	3249.0	2465.6	2460.1	2563.6	2637.9	2698.3	2678.2	2648.9	2668.1
25°	6034.4	4888.2	2893.5	2317.2	2373.1	2477.5	2569.1	2528.8	2461.0	2448.2	2455.5
27.5°	5900.6	4584.0	2564.6	2179.7	2272.3	2397.8	2392.3	2352.0	2328.2	2311.7	2321.8
30°	5756.8	4254.1	2276.9	2059.7	2160.5	2264.0	2243.0	2242.0	2218.2	2191.7	2204.5
32.5°	5614.7	3922.4	2048.7	1960.8	2076.2	2090.0	2135.8	2149.5	2102.8	2046.9	2043.2
35°	5491.0	3609.1	1875.5	1871.0	1974.5	1976.3	2043.2	2024.0	1907.6	1849.9	1849.9
37.5°	5398.5	3296.6	1743.6	1790.3	1840.7	1888.4	1922.3	1842.6	1823.3	1791.3	1790.3
40°	5358.2	3021.8	1661.1	1729.0	1746.4	1806.8	1719.8	1750.9	1760.1	1743.6	1743.6
42.5°	5316.0	2782.6	1589.7	1682.2	1679.5	1671.2	1627.2	1667.6	1704.2	1705.1	1702.4
45°	5273.9	2576.5	1526.5	1582.4	1620.8	1532.0	1540.2	1583.3	1634.6	1652.9	1652.9
47.5°	5227.2	2413.4	1468.7	1477.0	1536.5	1477.0	1470.6	1503.6	1564.0	1593.3	1599.8
50°	5124.5	2266.8	1402.8	1384.4	1400.9	1421.1	1426.6	1442.2	1509.1	1555.8	1566.8
52.5°	4982.5	2135.8	1318.5	1299.2	1299.2	1375.3	1400.9	1405.5	1462.3	1518.2	1529.2
55°	4864.3	2052.4	1231.4	1227.8	1224.1	1326.7	1370.7	1378.0	1417.4	1461.4	1466.9
57°	4872.6	2046.0	1164.5	1168.2	1167.3	1277.2	1342.3	1357.9	1378.0	1415.6	1422.0
57.5°	4877.2	2050.6	1149.9	1151.7	1150.8	1263.5	1334.1	1351.5	1367.0	1406.4	1412.8
60°	4945.9	2062.5	1090.3	1070.2	1074.8	1190.2	1287.3	1309.3	1319.4	1371.6	1379.9
62.5°	4844.2	2009.3	1042.7	994.1	994.1	1113.2	1222.3	1257.1	1272.7	1343.2	1357.0
65°	4549.1	1860.0	986.8	908.0	917.2	1036.3	1144.4	1201.2	1225.0	1313.0	1327.6
67.5°	4093.8	1686.8	927.2	831.0	840.2	955.6	1063.8	1125.1	1162.7	1280.0	1291.9
70°	3501.0	1475.2	846.6	749.5	760.5	867.7	968.5	1038.1	1094.0	1248.8	1252.5
72.5°	2581.1	1209.4	733.9	659.7	671.6	765.1	872.3	952.9	1028.0	1171.0	1169.1
75°	1534.7	945.6	609.3	569.0	577.2	664.3	785.2	883.3	996.0	1140.7	1158.1
77.5°	930.9	711.9	496.6	476.4	486.5	575.4	722.9	827.4	982.2	1075.7	1070.2
80°	562.6	508.5	396.7	383.9	394.0	492.0	668.9	785.2	858.5	919.0	919.0
82.5°	294.1	310.6	291.4	281.3	295.0	399.5	608.4	685.3	758.6	651.4	608.4
85°	120.0	162.2	176.8	175.9	184.2	276.7	525.0	586.4	489.3	464.5	475.5
87.5°	40.3	68.7	86.1	74.2	77.9	174.1	363.7	283.1	336.3	234.6	222.6
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)