

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: P318341

Luminaire Tested: **GAN-SA7D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318341
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-SA7D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45906 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

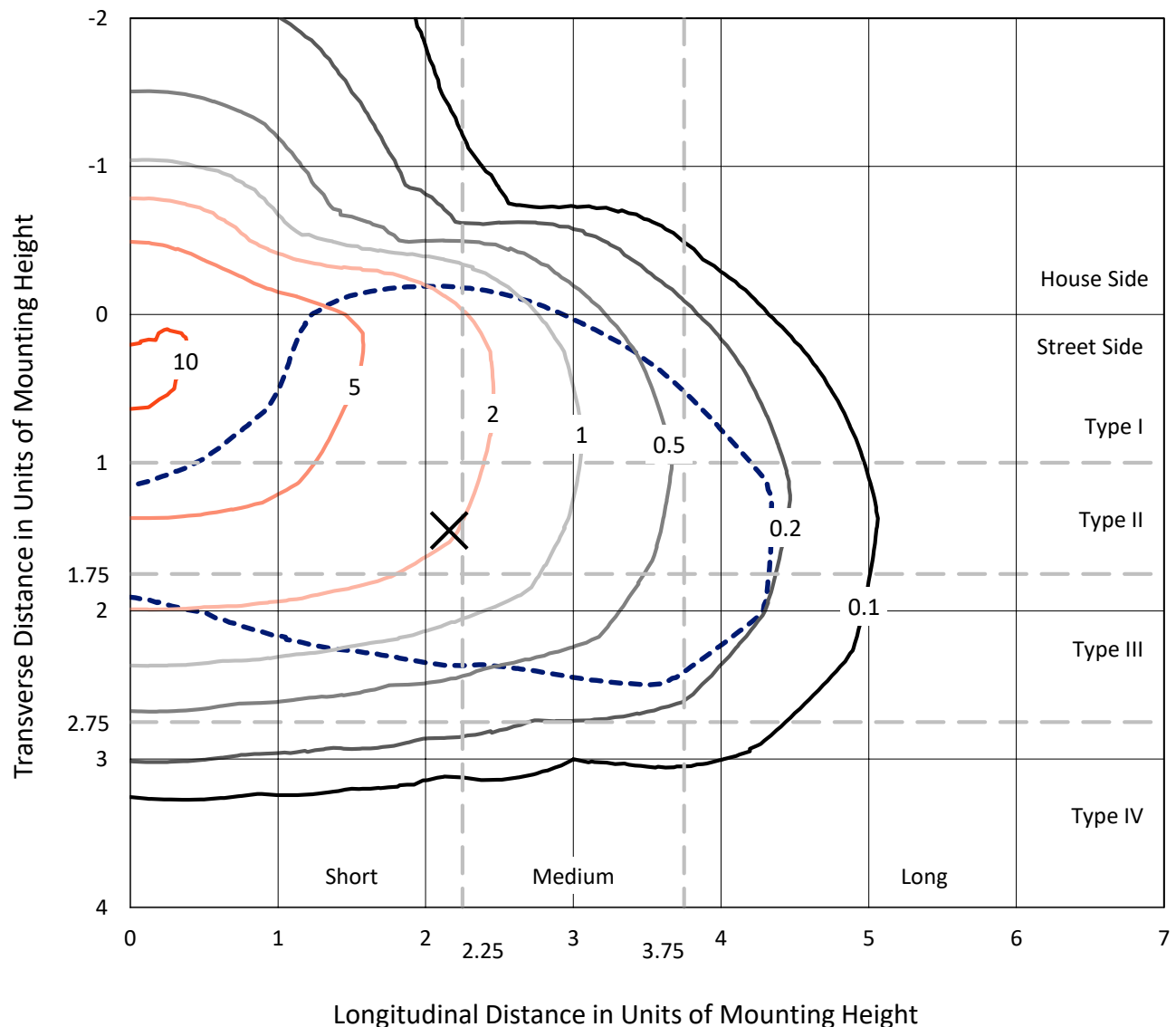
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

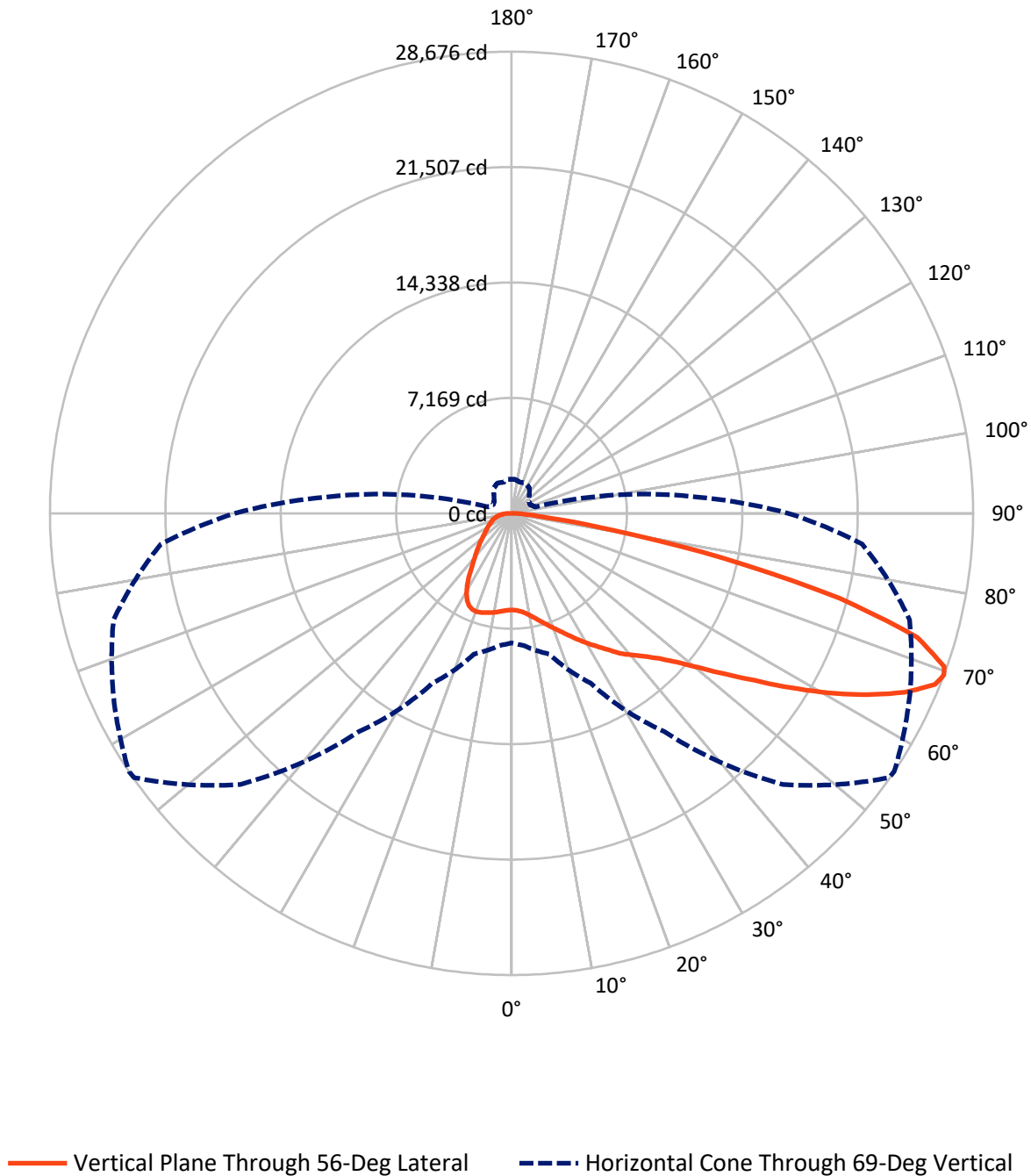
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	10223.2	0.0	10223.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35682.8	0.0	35682.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	45906.0	0.0	45906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.4	1.3
10°-20°	1895.4	4.1
20°-30°	3308.7	7.2
30°-40°	4752.8	10.4
40°-50°	6577.6	14.3
50°-60°	9637.1	21.0
60°-70°	11749.4	25.6
70°-80°	6495.9	14.2
80°-90°	899.7	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°	45906.0	100.0
0°-180°	45906.0	100.0

Coefficient of Utilization



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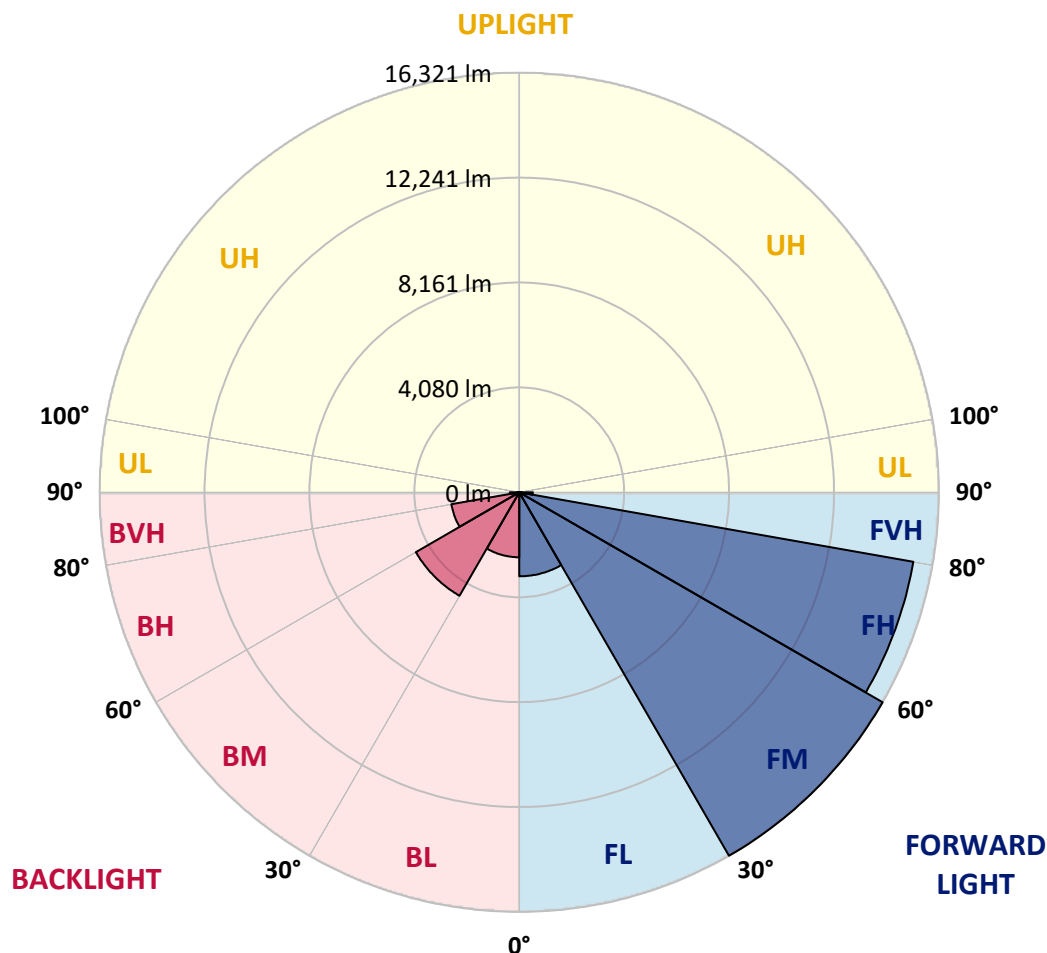
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3267.1	7.1			
FM	(30°-60°)	16321.3	35.6			
FH	(60°-80°)	15564.4	33.9			G5
FVH	(80°-90°)	529.9	1.2			G4/750
BL	(0°-30°)	2526.4	5.5	B4/5000		
BM	(30°-60°)	4646.2	10.1	B3/5000		
BH	(60°-80°)	2680.9	5.8	B4/5000		G4/5000
BVH	(80°-90°)	369.7	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5
2.5°	6039.5	6045.8	6041.1	6053.7	6039.5	6049.0	6041.1	6041.1	6036.3	6022.1	6006.3
5°	6134.4	6147.0	6139.1	6151.8	6134.4	6137.5	6123.3	6123.3	6109.1	6079.0	6047.4
7.5°	6283.0	6297.2	6290.9	6303.6	6279.8	6279.8	6260.9	6259.3	6230.8	6181.8	6145.4
10°	6460.1	6479.1	6472.8	6491.8	6472.8	6479.1	6460.1	6460.1	6422.2	6352.6	6306.7
12.5°	6717.9	6741.6	6724.2	6722.6	6714.7	6727.4	6711.6	6708.4	6673.6	6578.7	6515.5
15°	7062.7	7088.0	7051.6	7048.4	7004.1	6999.4	6999.4	6994.7	6972.5	6858.7	6754.3
17.5°	7459.6	7467.5	7435.9	7385.3	7328.3	7292.0	7287.2	7299.9	7299.9	7167.0	7001.0
20°	7848.6	7862.9	7837.6	7780.6	7707.9	7654.1	7616.2	7641.5	7639.9	7481.7	7246.1
22.5°	8272.4	8305.7	8267.7	8195.0	8109.6	8049.5	7983.0	8005.2	8006.8	7812.3	7486.5
25°	8821.2	8791.2	8767.4	8664.6	8542.9	8481.2	8419.5	8441.7	8435.3	8168.1	7734.8
27.5°	9306.7	9313.0	9281.4	9172.3	9031.5	8895.5	8892.4	8906.6	8882.9	8538.1	7968.8
30°	9871.3	9874.4	9830.2	9732.1	9578.7	9403.2	9362.1	9385.8	9335.2	8889.2	8215.5
32.5°	10432.7	10448.5	10399.5	10280.9	10157.5	9944.0	9861.8	9877.6	9751.1	9248.2	8470.1
35°	10924.5	10946.6	10930.8	10851.8	10717.3	10533.9	10435.8	10426.4	10269.8	9687.8	8807.0
37.5°	11425.8	11446.4	11429.0	11362.6	11308.8	11114.3	11062.1	11062.1	10790.1	10137.0	9235.5
40°	11941.4	11973.0	11952.4	11860.7	11814.8	11726.3	11601.4	11571.3	11277.2	10676.2	9934.5
42.5°	12420.5	12461.7	12543.9	12490.1	12396.8	12409.5	12158.0	12142.2	11927.1	11473.3	10812.2
45°	13100.5	13160.6	13299.8	13258.7	13239.7	13170.1	12871.2	12857.0	12774.8	12545.5	11901.8
47.5°	13842.2	13924.5	14175.9	14183.8	14387.8	14256.6	13850.1	13801.1	13820.1	13829.6	13231.8
50°	14525.4	14615.6	15028.3	15222.8	15703.6	15732.0	15082.1	15037.8	15112.1	15330.4	14781.6
52.5°	15071.0	15184.9	15700.4	16301.4	17125.3	17359.3	16598.7	16565.5	16620.8	16997.2	16533.8
55°	15471.1	15594.5	16155.9	17250.2	18566.0	18978.7	18344.6	18312.9	18347.7	18826.9	18439.4
57.5°	15564.4	15594.5	16408.9	17889.1	19782.1	20773.6	20481.1	20417.8	20247.0	20664.5	20542.7
60°	15126.4	15246.5	16200.1	18113.7	20723.0	22543.3	22714.0	22635.0	22155.8	22497.4	22399.3
62.5°	14237.6	14452.7	15420.5	17772.1	21091.5	23988.7	24904.3	24809.4	23983.9	24205.3	23734.1
65°	12785.8	12877.6	13894.4	16593.9	20623.4	24913.8	26857.4	26809.9	25770.9	25424.6	23980.8
67.5°	10189.1	10361.5	11225.0	14131.6	18708.3	24804.7	28367.7	28362.9	26938.0	25876.9	23106.2
69°	8049.5	8228.2	9050.5	11640.9	16554.4	23806.8	28620.7	28676.0	27267.0	25601.7	21856.9
70°	6417.4	6624.6	7189.2	9804.9	14642.4	22491.1	28410.4	28510.0	27203.7	25147.9	20704.1
72.5°	2731.1	2898.8	3300.4	5054.2	8924.0	16794.8	25976.5	26352.9	25737.7	23016.1	17111.0
75°	1192.4	1244.6	1426.4	2060.6	3961.5	9140.7	20349.8	21045.6	22007.1	19454.7	12746.3
77.5°	872.9	895.1	994.7	1209.8	1777.5	3452.3	13086.3	13491.2	15871.2	14156.9	7818.6
80°	675.3	691.1	768.6	888.8	1160.8	1396.4	5968.3	6316.2	8924.0	7271.4	3256.2
82.5°	537.7	548.8	602.5	654.7	801.8	846.1	1981.5	2198.2	3294.1	2008.4	861.9
85°	499.7	512.4	531.4	477.6	514.0	496.6	857.1	896.7	994.7	789.1	360.6
87.5°	226.1	267.3	526.6	371.6	273.6	218.2	351.1	366.9	412.8	414.3	159.7
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°	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5	6001.5
2.5°	6015.8	6011.0	6018.9	5999.9	6023.7	6022.1	6014.2	6017.3	6033.1	6031.6	6033.1
5°	6052.1	6049.0	6058.4	6044.2	6072.7	6082.2	6083.8	6098.0	6115.4	6120.1	6120.1
7.5°	6143.8	6143.8	6148.6	6129.6	6148.6	6147.0	6139.1	6153.3	6170.7	6172.3	6170.7
10°	6302.0	6303.6	6295.7	6246.6	6230.8	6188.1	6148.6	6150.2	6172.3	6189.7	6194.5
12.5°	6501.2	6494.9	6460.1	6370.0	6303.6	6216.6	6175.5	6173.9	6196.0	6210.3	6215.0
15°	6729.0	6711.6	6621.4	6474.4	6357.3	6271.9	6205.5	6189.7	6177.1	6161.2	6162.8
17.5°	6944.0	6904.5	6754.3	6550.3	6426.9	6313.1	6185.0	6082.2	6011.0	5969.9	5957.2
20°	7162.3	7084.8	6868.1	6621.4	6464.9	6257.7	6011.0	5802.3	5672.6	5612.5	5601.4
22.5°	7361.5	7236.6	6974.1	6695.8	6434.8	6071.1	5683.7	5380.0	5199.7	5119.1	5125.4
25°	7556.1	7382.1	7084.8	6748.0	6283.0	5742.2	5228.2	4855.0	4646.2	4556.1	4552.9
27.5°	7726.9	7529.2	7205.0	6705.3	5999.9	5274.1	4688.9	4325.2	4151.2	4073.8	4061.1
30°	7923.0	7714.2	7364.7	6542.4	5585.6	4733.2	4162.3	3906.1	3782.8	3705.3	3691.1
32.5°	8161.7	7965.7	7496.0	6246.6	5055.8	4168.6	3751.1	3572.4	3460.2	3373.2	3357.4
35°	8509.7	8297.8	7529.2	5822.8	4473.9	3722.7	3449.1	3265.6	3113.8	3001.5	2990.5
37.5°	8946.1	8713.7	7453.3	5274.1	3909.3	3433.3	3197.6	2971.5	2773.8	2615.7	2590.4
40°	9575.5	9224.5	7242.9	4641.5	3493.4	3210.3	2952.5	2694.8	2449.6	2264.6	2228.2
42.5°	10331.5	9823.8	6920.3	4012.1	3188.2	2984.2	2709.0	2389.5	2155.5	2024.2	2005.3
45°	11293.0	10446.9	6472.8	3461.7	2887.7	2758.0	2446.5	2152.3	2006.8	1910.4	1894.6
47.5°	12390.5	11145.9	6003.1	3014.2	2633.1	2546.1	2236.1	2046.4	1930.9	1855.0	1840.8
50°	13739.4	11935.0	5505.0	2647.3	2376.9	2291.5	2136.5	1987.9	1896.1	1837.6	1823.4
52.5°	15260.8	12825.4	5146.0	2357.9	2165.0	2103.3	2084.3	1956.2	1881.9	1837.6	1823.4
55°	16899.1	13731.5	4758.5	2114.4	1981.5	1998.9	2049.5	1959.4	1908.8	1855.0	1834.5
57.5°	18539.1	14667.7	4326.8	1908.8	1836.0	1921.4	2025.8	1965.7	1923.0	1870.8	1851.9
60°	19835.8	15260.8	3657.8	1736.4	1720.6	1836.0	1968.9	1918.3	1862.9	1864.5	1861.3
62.5°	20441.5	15229.1	2919.3	1583.0	1605.1	1720.6	1877.2	1843.9	1798.1	1859.8	1864.5
65°	20101.5	14470.1	2272.5	1443.8	1481.8	1600.4	1782.3	1807.6	1823.4	1942.0	1957.8
67.5°	18675.1	12993.0	1760.1	1322.1	1369.5	1518.2	1791.8	1968.9	1989.4	2114.4	2112.8
69°	17199.6	11607.7	1529.2	1258.8	1314.2	1538.7	1915.1	2071.7	1994.2	2127.0	2108.0
70°	15962.9	10511.8	1405.9	1216.1	1288.9	1575.1	1997.3	2070.1	1970.5	2084.3	2052.7
72.5°	12294.0	7562.4	1192.4	1137.0	1203.5	1507.1	2021.1	2024.2	1915.1	1937.2	1883.5
75°	8432.2	4779.1	1040.6	1029.5	1073.8	1358.4	1945.2	1934.1	1771.2	1739.6	1695.3
77.5°	4649.4	2427.5	884.0	926.7	956.8	1203.5	1768.0	1752.2	1617.8	1551.4	1535.6
80°	1793.3	1062.7	746.4	823.9	842.9	1042.2	1549.8	1535.6	1423.3	1337.9	1314.2
82.5°	676.9	556.7	616.8	713.2	706.9	860.3	1312.6	1304.7	1195.6	1070.6	1032.7
85°	313.1	333.7	488.7	588.3	542.4	637.3	1050.1	1064.3	931.5	782.8	782.8
87.5°	132.8	186.6	346.3	444.4	365.3	430.1	770.2	735.4	675.3	468.1	439.6
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)