

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: P317891

Luminaire Tested: **GAN-SA7C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37604 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

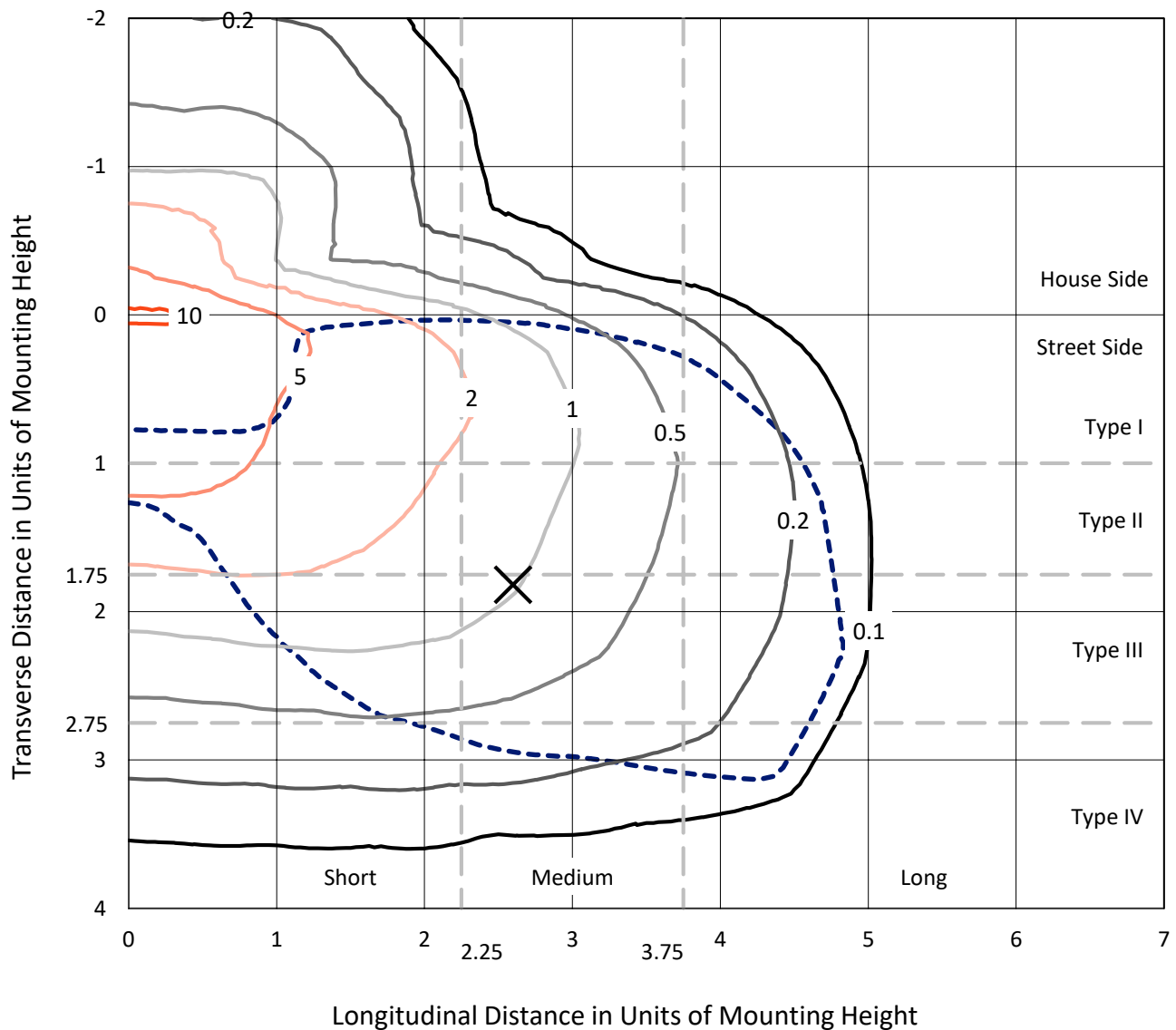
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

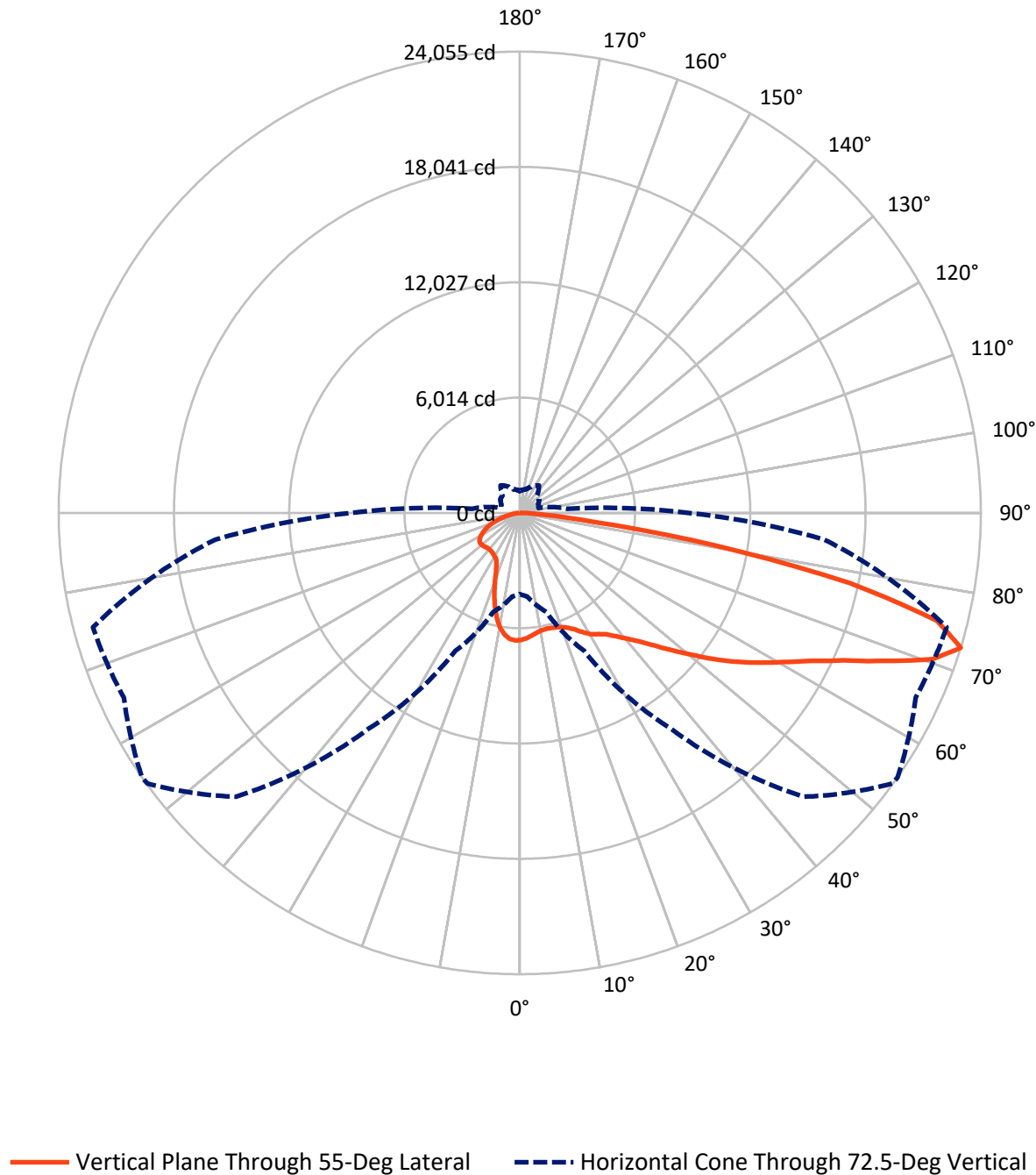
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6989.4	0.0	6989.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30614.6	0.0	30614.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	37604.0	0.0	37604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.2	1.6
10°-20°	1597.9	4.2
20°-30°	2634.5	7.0
30°-40°	3897.1	10.4
40°-50°	5439.5	14.5
50°-60°	7082.4	18.8
60°-70°	8704.0	23.1
70°-80°	6822.9	18.1
80°-90°	825.7	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°	37604.0	100.0
0°-180°	37604.0	100.0

Coefficient of Utilization



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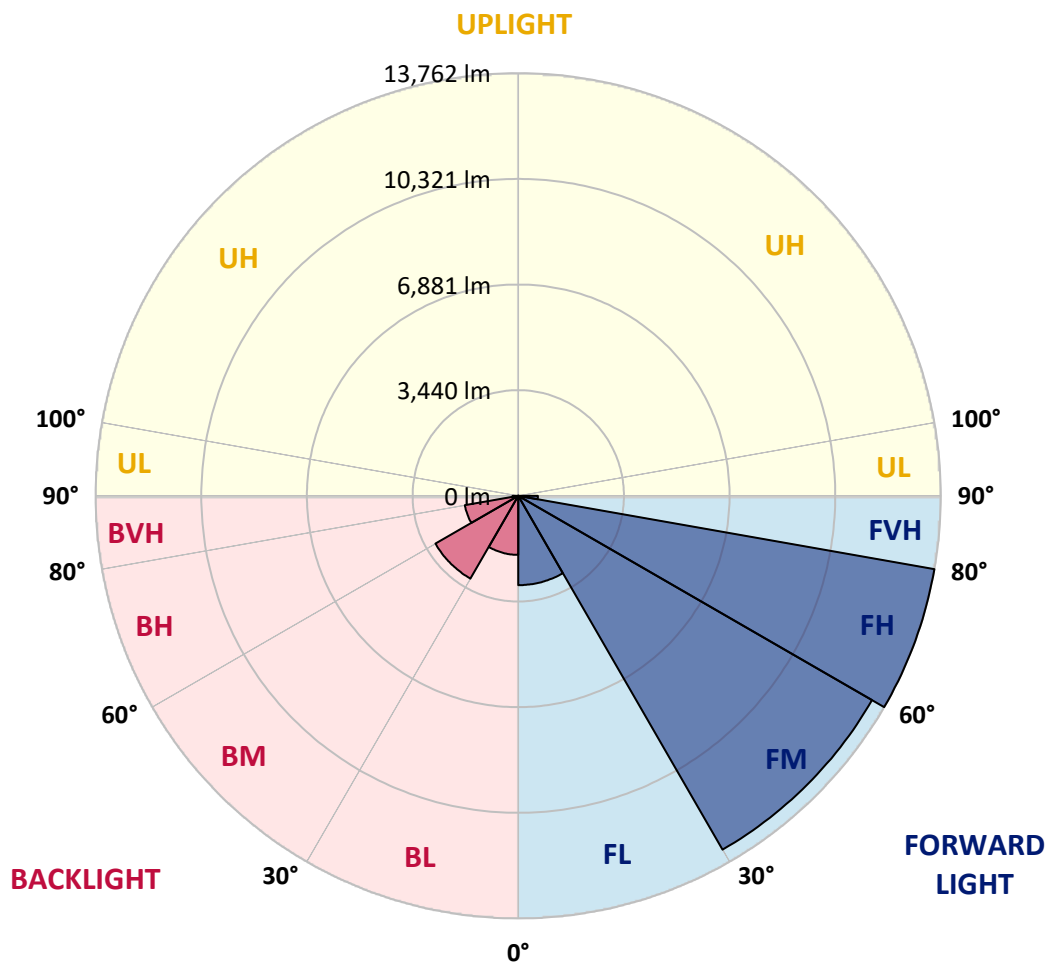
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2909.4	7.7			
FM	(30°-60°)	13305.0	35.4			
FH	(60°-80°)	13761.8	36.6			G5
FVH	(80°-90°)	638.4	1.7			G4/750
BL	(0°-30°)	1923.1	5.1	B3/2500		
BM	(30°-60°)	3113.9	8.3	B3/5000		
BH	(60°-80°)	1765.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	187.3	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5
2.5°	6416.6	6401.4	6420.4	6447.1	6476.3	6515.7	6538.5	6548.7	6588.1	6603.3	6636.3
5°	6119.4	6111.8	6143.5	6189.3	6254.0	6345.5	6419.2	6433.1	6537.3	6610.9	6678.3
7.5°	5903.5	5903.5	5940.3	5994.9	6067.3	6190.5	6294.7	6313.7	6490.3	6649.0	6773.5
10°	5732.0	5738.4	5781.6	5846.3	5931.4	6062.3	6200.7	6222.3	6477.6	6738.0	6936.1
12.5°	5617.7	5633.0	5672.3	5730.8	5836.2	5994.9	6170.2	6199.4	6504.3	6865.0	7131.7
15°	5690.1	5715.5	5719.3	5743.5	5801.9	5974.6	6188.0	6218.5	6561.4	6994.5	7354.0
17.5°	6007.6	6016.5	5977.2	5926.4	5898.4	6008.9	6241.3	6273.1	6630.0	7122.8	7567.3
20°	6490.3	6485.2	6400.1	6262.9	6120.7	6138.5	6329.0	6362.0	6722.7	7235.8	7780.7
22.5°	7099.9	7082.2	6951.3	6698.6	6456.0	6354.4	6482.7	6510.6	6862.4	7397.1	8009.3
25°	7839.1	7799.8	7627.0	7287.9	6931.0	6669.4	6713.8	6740.5	7065.6	7577.5	8218.9
27.5°	8619.0	8579.6	8359.9	7949.6	7474.6	7066.9	7032.6	7055.5	7296.8	7710.9	8373.9
30°	9434.4	9392.5	9191.8	8732.0	8051.3	7478.4	7329.8	7338.7	7459.4	7783.3	8500.9
32.5°	10253.6	10214.3	9989.4	9456.0	8677.4	7920.4	7544.5	7533.0	7557.2	7858.2	8644.4
35°	11084.3	11099.5	10836.6	10246.0	9370.9	8412.0	7798.5	7774.4	7721.0	8011.9	8847.6
37.5°	11973.4	11963.2	11622.8	11005.5	10096.1	8945.4	8163.0	8159.2	7975.0	8302.7	9166.4
40°	12567.8	12574.1	12367.1	11782.8	10829.0	9536.0	8630.4	8621.5	8380.2	8738.4	9584.3
42.5°	12800.2	12842.1	12895.5	12524.6	11596.1	10220.6	9188.0	9175.3	8945.4	9363.3	10075.8
45°	12816.7	12900.6	13230.8	13183.8	12373.5	11004.3	9900.5	9865.0	9699.9	10193.9	10662.6
47.5°	12674.5	12760.8	13309.5	13576.3	13068.2	11831.1	10733.7	10705.8	10563.5	11232.9	11297.7
50°	12363.3	12445.8	13147.0	13768.0	13639.8	12626.2	11693.9	11620.3	11544.1	12433.1	12024.2
52.5°	11780.3	11939.1	12929.8	13813.8	13981.4	13332.4	12703.7	12655.4	12697.3	13699.5	12751.9
55°	10399.7	10577.5	12369.6	13775.7	14234.2	13925.5	13713.4	13710.9	13928.1	15028.0	13533.1
57.5°	9626.2	9751.9	11229.1	13710.9	14533.9	14514.9	14713.0	14737.1	15160.1	16474.7	14351.0
60°	9189.3	9321.4	10651.2	13470.8	14998.8	15276.9	15732.9	15781.2	16412.4	18076.3	15335.4
62.5°	8791.7	8936.5	10293.0	12981.8	15546.2	16366.7	16954.8	16997.9	17738.4	19722.3	16286.7
65°	8112.2	8276.1	9768.4	12660.5	16044.1	17787.9	18508.1	18537.3	19261.3	21447.1	17014.5
67.5°	7152.0	7301.9	8779.0	11950.5	16412.4	19514.0	20573.3	20589.8	20771.4	22665.2	17386.6
70°	6030.5	6087.7	7369.2	10484.8	15976.8	21128.4	22836.7	22840.5	22148.3	23445.0	17325.6
72.5°	4237.1	4371.7	5349.7	7936.9	13729.9	20931.5	24011.5	24054.7	22788.4	23051.3	15941.2
75°	2598.7	2740.9	3355.6	4809.9	8710.4	16462.0	22185.1	22484.8	21588.1	20553.0	13022.5
77.5°	1737.5	1790.9	2189.7	2804.4	3946.2	9471.2	17056.4	17620.3	17934.0	14988.6	8328.1
80°	969.1	1070.7	1451.7	1742.6	1755.3	3763.3	10227.0	10359.1	9978.0	5968.3	2569.4
82.5°	513.1	569.0	969.1	1023.7	957.7	1260.0	3811.6	3815.4	3188.0	1600.3	763.3
85°	397.5	444.5	664.3	624.9	489.0	558.9	1257.4	1326.0	1084.7	655.4	248.9
87.5°	198.1	246.4	450.9	396.3	191.8	160.0	449.6	480.1	428.0	256.6	90.2
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°	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5	6632.5
2.5°	6649.0	6660.5	6674.5	6659.2	6654.1	6633.8	6599.5	6591.9	6574.1	6575.4	6585.5
5°	6707.5	6726.5	6718.9	6660.5	6590.6	6492.8	6391.2	6304.8	6247.7	6243.9	6240.1
7.5°	6819.2	6831.9	6772.2	6605.9	6410.3	6184.2	5970.8	5784.1	5671.1	5643.1	5636.8
10°	6994.5	6992.0	6828.1	6492.8	6102.9	5699.0	5356.1	5097.0	4945.8	4901.4	4889.9
12.5°	7190.1	7160.9	6847.2	6287.1	5668.5	5108.4	4674.0	4385.7	4228.2	4177.4	4164.7
15°	7392.1	7319.7	6800.2	5979.7	5135.1	4472.1	4016.1	3749.4	3664.3	3636.3	3631.3
17.5°	7580.0	7440.3	6665.6	5563.1	4526.7	3838.3	3482.7	3376.0	3396.3	3433.1	3434.4
20°	7764.2	7521.6	6449.6	5037.3	3885.3	3316.3	3195.6	3274.4	3370.9	3445.8	3456.0
22.5°	7945.8	7578.8	6171.5	4430.2	3311.2	3022.9	3108.0	3251.5	3362.0	3443.3	3457.3
25°	8098.2	7592.7	5787.9	3782.4	2912.4	2912.4	3066.1	3202.0	3311.2	3391.2	3405.2
27.5°	8154.1	7498.8	5246.8	3182.9	2711.7	2861.6	3007.6	3120.7	3213.4	3298.5	3313.7
30°	8175.7	7324.7	4621.9	2701.5	2629.1	2807.0	2928.9	3025.4	3113.0	3193.1	3207.0
32.5°	8179.5	7115.2	3958.9	2428.5	2572.0	2749.8	2831.1	2916.2	3010.2	3041.9	3047.0
35°	8203.7	6867.5	3260.4	2288.7	2518.6	2696.5	2761.2	2822.2	2669.8	2681.2	2691.4
37.5°	8273.5	6622.4	2676.1	2210.0	2484.3	2668.5	2746.0	2525.0	2405.6	2377.7	2373.8
40°	8404.3	6360.7	2243.0	2146.5	2471.6	2682.5	2648.2	2357.3	2151.6	1997.9	1975.0
42.5°	8586.0	6078.8	1966.1	2104.6	2480.5	2749.8	2512.3	2196.0	1854.4	1755.3	1742.6
45°	8790.5	5782.8	1816.3	2075.4	2511.0	2801.9	2484.3	1981.4	1715.9	1641.0	1634.6
47.5°	8988.6	5420.8	1738.8	2062.7	2552.9	2760.0	2366.2	1915.3	1649.9	1610.5	1614.3
50°	9215.9	5094.4	1691.8	2048.7	2589.8	2733.3	2232.9	1881.0	1624.5	1672.7	1723.5
52.5°	9407.7	4756.6	1649.9	2020.8	2603.7	2686.3	2198.6	1887.4	1624.5	1717.2	1765.5
55°	9635.1	4501.3	1601.6	1962.3	2577.1	2552.9	2174.4	1925.5	1643.5	1585.1	1590.2
57.5°	9928.5	4417.5	1548.3	1870.9	2488.2	2358.6	2163.0	1962.3	1632.1	1595.3	1608.0
60°	10334.9	4506.4	1526.7	1751.5	2349.7	2206.2	2164.3	1943.3	1552.1	1488.6	1489.8
62.5°	10722.3	4605.4	1525.4	1676.6	2179.5	2070.3	2135.1	1881.0	1511.4	1474.6	1488.6
65°	10849.3	4505.1	1464.4	1592.7	1987.7	1907.7	2081.7	1815.0	1481.0	1425.1	1422.5
67.5°	10679.1	4193.9	1341.2	1456.8	1768.0	1718.5	2011.9	1736.2	1432.7	1387.0	1379.3
70°	10173.6	3499.2	1188.8	1277.7	1517.8	1505.1	1901.4	1644.8	1367.9	1328.5	1295.5
72.5°	8813.3	2493.2	1002.1	1063.1	1235.8	1276.5	1748.9	1525.4	1276.5	1191.4	1140.6
75°	7238.4	1845.5	823.0	835.7	938.6	1049.1	1539.4	1385.7	1168.5	1023.7	984.3
77.5°	4432.7	1129.1	655.4	660.5	673.2	837.0	1267.6	1229.5	1031.3	853.5	825.6
80°	1435.2	616.0	473.8	497.9	459.8	613.5	980.5	1046.6	885.3	713.8	683.3
82.5°	546.1	359.4	320.1	336.6	318.8	411.5	715.1	838.3	725.2	586.8	477.6
85°	264.2	203.2	189.2	212.1	196.9	210.8	457.2	617.3	550.0	382.3	355.6
87.5°	94.0	90.2	72.4	97.8	83.8	74.9	139.7	311.2	363.3	262.9	235.0
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)