

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: P319649

Luminaire Tested: **GAN-SA5C-730-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32197 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

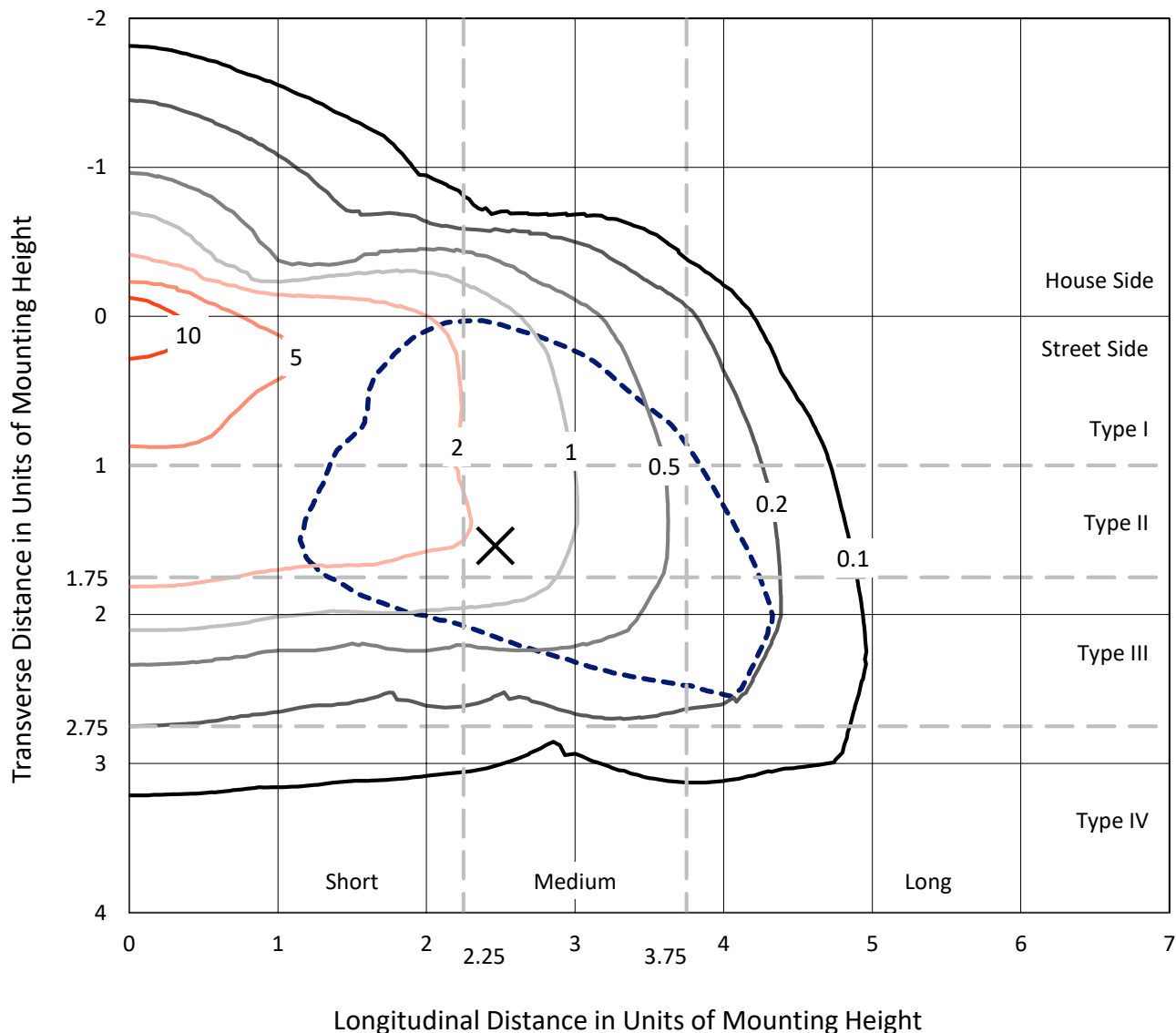
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

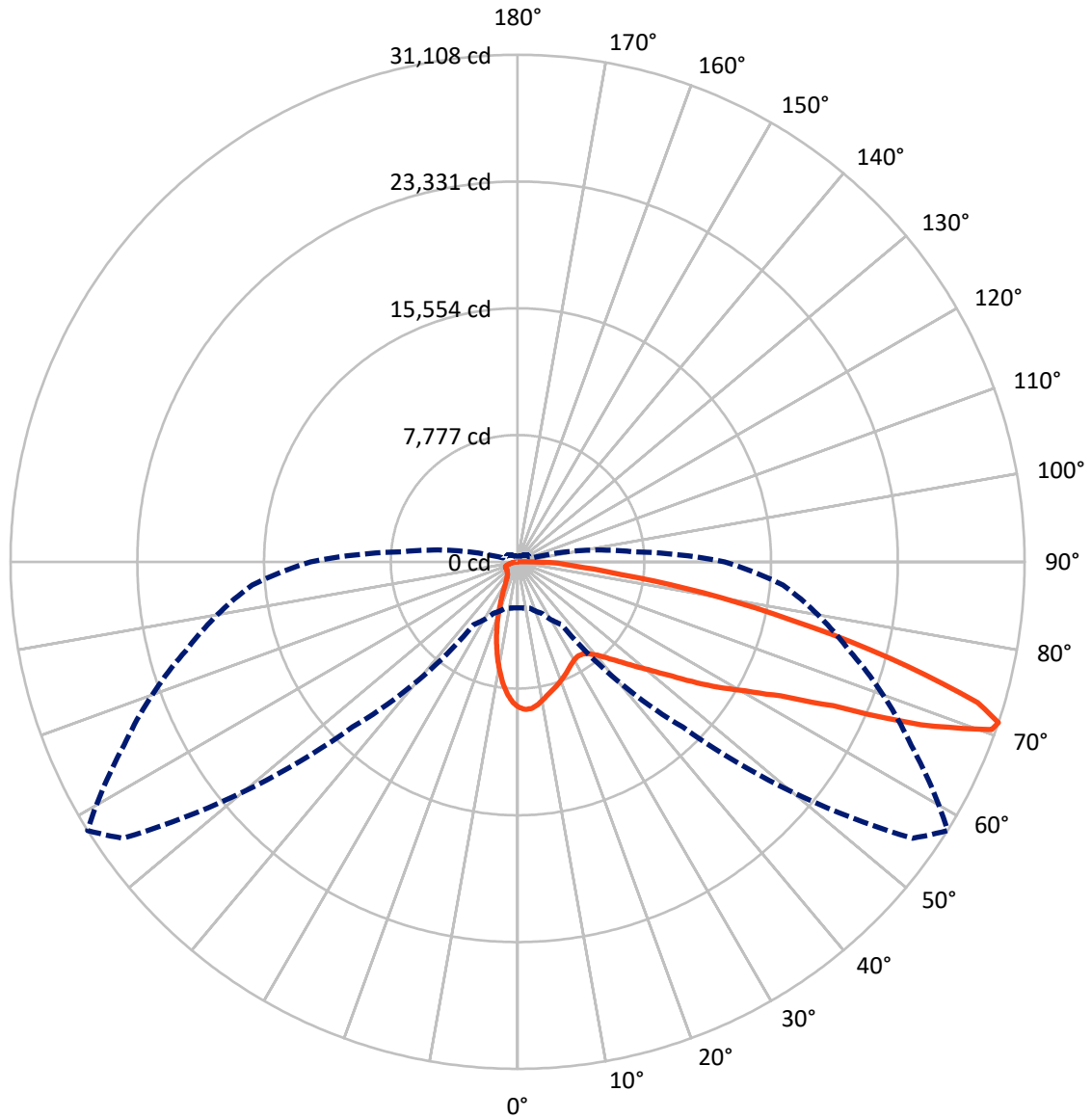
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4813.7	0.0	4813.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	27383.3	0.0	27383.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	32197.0	0.0	32197.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.6	2.4
10°-20°	1711.3	5.3
20°-30°	2174.9	6.8
30°-40°	2770.3	8.6
40°-50°	3928.5	12.2
50°-60°	6079.4	18.9
60°-70°	8276.4	25.7
70°-80°	5521.3	17.1
80°-90°	965.3	3.0
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°	32197.0	100.0
0°-180°	32197.0	100.0

**Coefficient of Utilization**

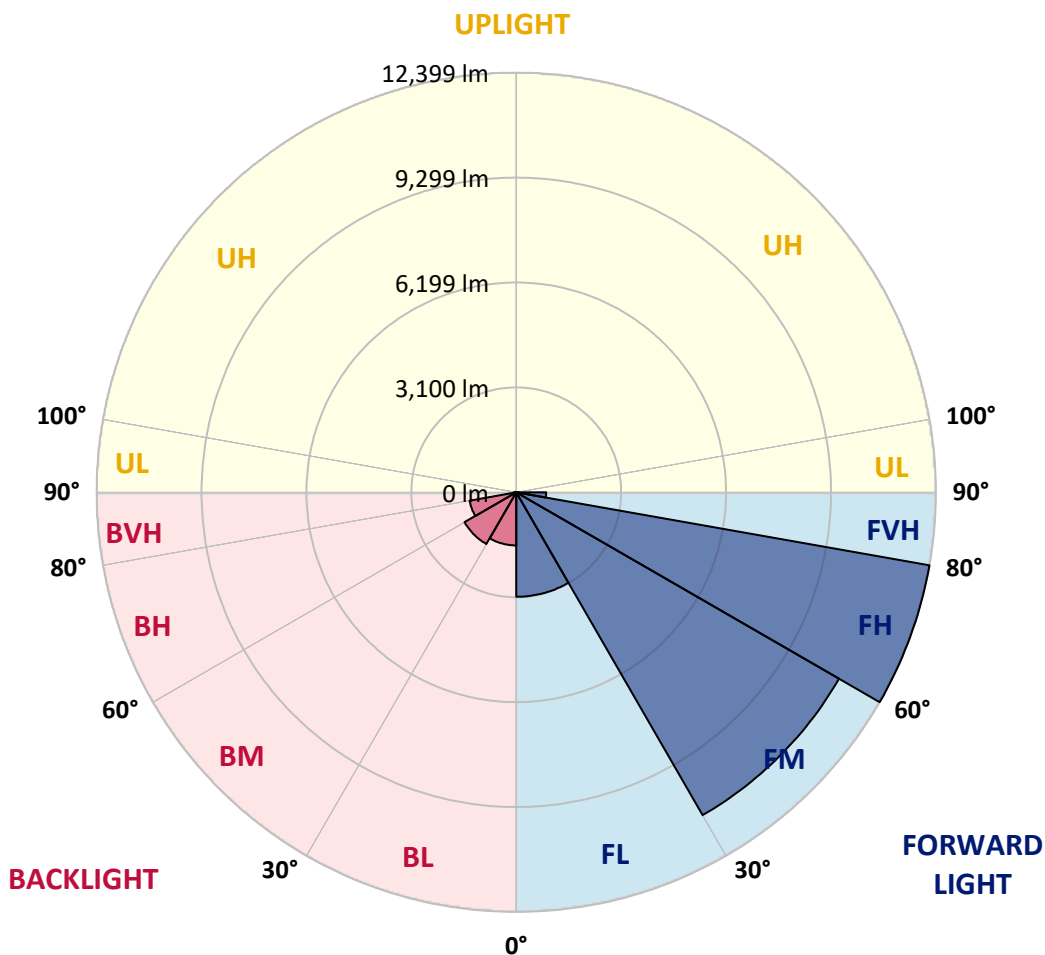


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.6	9.6			
FM (30°-60°)	11012.9	34.2			
FH (60°-80°)	12398.7	38.5			G5
FVH (80°-90°)	885.1	2.7			G5
BL (0°-30°)	1569.1	4.9	B3/2500		
BM (30°-60°)	1765.3	5.5	B2/2500		
BH (60°-80°)	1399.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	80.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7
2.5°	9157.4	9145.0	9149.5	9140.5	9119.2	9097.9	9066.5	9072.1	9028.4	8963.3	8882.6
5°	8984.6	8980.2	9013.8	9032.9	9048.6	9036.2	9027.3	9038.5	8974.6	8884.8	8744.6
7.5°	8622.4	8573.0	8615.7	8679.6	8740.2	8786.1	8846.7	8854.6	8814.2	8720.0	8536.0
10°	8107.6	8060.5	8123.3	8223.1	8344.3	8454.2	8576.4	8598.8	8606.7	8521.5	8298.3
12.5°	7573.8	7537.9	7600.7	7740.9	7941.6	8111.0	8306.1	8339.8	8409.3	8352.1	8078.4
15°	7096.0	7082.5	7158.8	7296.7	7527.8	7786.8	8068.4	8130.0	8247.8	8228.7	7906.9
17.5°	6683.3	6679.9	6738.2	6882.9	7138.6	7466.1	7831.7	7936.0	8111.0	8133.4	7765.5
20°	6375.9	6369.2	6409.6	6516.1	6779.7	7150.9	7576.0	7719.6	7971.9	8050.4	7619.7
22.5°	6211.1	6210.0	6211.1	6261.6	6476.9	6822.3	7327.0	7502.0	7836.2	7984.2	7458.2
25°	6183.0	6179.7	6155.0	6149.4	6271.6	6547.5	7080.3	7273.2	7707.2	7938.3	7304.6
27.5°	6255.9	6260.4	6227.9	6175.2	6199.9	6367.0	6866.1	7072.4	7604.0	7929.3	7198.0
30°	6407.4	6405.1	6377.1	6322.1	6273.9	6299.7	6713.5	6919.9	7534.5	7968.5	7125.1
32.5°	6574.5	6586.8	6581.2	6550.9	6479.1	6375.9	6667.5	6869.4	7514.3	8062.7	7093.7
35°	6775.2	6788.7	6829.1	6852.6	6768.5	6602.5	6766.2	6941.2	7572.6	8239.9	7144.2
37.5°	6965.9	7000.6	7113.9	7213.7	7142.0	6956.9	7028.7	7153.2	7753.2	8519.2	7279.9
40°	7185.7	7216.0	7401.0	7613.0	7601.8	7410.0	7451.5	7534.5	8071.7	8919.6	7525.5
42.5°	7402.2	7462.7	7730.8	8031.3	8117.7	7948.3	8014.5	8058.3	8520.3	9450.1	7954.0
45°	7690.4	7755.4	8127.8	8490.1	8691.9	8596.6	8702.0	8718.8	9084.5	10172.4	8576.4
47.5°	8126.7	8200.7	8634.7	9014.9	9323.4	9333.4	9507.3	9500.6	9788.8	10998.9	9360.4
50°	8806.3	8912.9	9268.4	9623.9	9998.5	10207.1	10439.3	10406.8	10633.3	11879.3	10263.2
52.5°	9696.8	9746.2	10009.7	10272.2	10737.6	11205.3	11538.4	11509.2	11591.1	12784.4	11288.3
55°	10619.9	10656.9	10765.7	10909.2	11535.0	12297.7	13002.0	12956.0	12748.5	13724.3	12301.0
57.5°	11449.8	11524.9	11600.1	11659.5	12338.1	13439.4	14499.3	14502.6	14004.7	14738.1	13347.4
60°	11578.8	11644.9	12141.8	12610.6	13711.9	14962.5	16101.9	16068.3	15304.5	15838.4	14513.8
62.5°	10235.2	10384.3	11214.3	12461.4	15035.4	17748.4	18146.5	18105.0	16859.0	17194.3	15872.0
65°	7334.9	7504.2	8505.8	10379.8	14393.8	20818.0	21836.4	21277.8	18978.7	18862.0	17462.4
67.5°	4231.6	4271.9	4706.0	6211.1	10959.7	20978.4	27465.4	26683.7	22270.4	20754.1	18240.7
70°	3129.1	3128.0	3231.2	3822.2	5930.7	17121.4	30142.5	30843.4	25736.0	21376.5	17140.5
71°	2829.6	2833.0	2948.5	3479.0	4697.0	14331.0	29573.9	31108.1	26648.9	21069.2	16344.2
72.5°	2420.3	2431.5	2591.9	3120.1	3951.2	9883.0	27124.4	29520.0	27081.8	20311.1	15098.2
75°	1836.0	1861.8	2083.8	2630.0	3611.4	5012.2	19907.3	23572.5	24058.1	17922.2	11218.8
77.5°	1310.0	1339.1	1590.3	2211.7	3433.0	3777.3	13331.7	17194.3	17704.6	11485.7	5060.4
80°	827.7	862.5	1052.0	1759.7	3225.5	3586.7	8377.9	11557.5	9654.2	3675.3	1287.5
82.5°	485.6	512.5	652.7	1149.6	2634.5	3454.3	4929.2	6406.2	3757.2	1110.3	585.4
85°	281.5	293.8	407.1	732.4	1913.3	3260.3	3621.4	3581.1	1630.7	542.8	277.0
87.5°	131.2	145.8	241.1	382.4	1062.1	2363.1	2862.2	2473.0	1013.9	254.6	130.1
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°	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7	8920.7
2.5°	8843.3	8824.3	8744.6	8674.0	8600.0	8503.5	8397.0	8383.5	8318.5	8330.8	8308.4
5°	8668.4	8620.1	8428.4	8254.5	8049.3	7865.4	7665.7	7573.8	7441.4	7432.4	7398.8
7.5°	8418.3	8328.5	8031.3	7701.6	7371.9	7057.8	6747.2	6543.1	6334.5	6245.9	6238.0
10°	8136.8	7984.2	7546.8	7059.0	6583.4	6124.7	5680.6	5352.0	5055.9	4915.7	4910.1
12.5°	7869.8	7644.4	7044.4	6380.4	5729.9	5135.5	4526.5	4094.7	3723.5	3599.0	3546.3
15°	7643.3	7325.9	6555.4	5706.4	4916.8	4091.4	3398.3	2944.0	2600.8	2482.0	2459.5
17.5°	7423.5	7015.2	6054.1	5025.6	4071.2	3163.9	2469.6	2132.0	1949.2	1901.0	1899.9
20°	7204.8	6695.6	5530.3	4329.1	3253.6	2366.4	1898.8	1747.4	1685.7	1680.1	1671.1
22.5°	6956.9	6356.9	4979.6	3630.4	2539.2	1860.6	1613.9	1553.3	1545.5	1565.7	1565.7
25°	6724.7	6020.4	4421.1	2946.3	1975.0	1552.2	1441.2	1428.8	1450.1	1486.0	1489.4
27.5°	6508.3	5696.3	3876.0	2338.4	1582.5	1367.2	1321.2	1335.8	1373.9	1415.4	1416.5
30°	6330.0	5390.1	3346.7	1842.7	1336.9	1229.2	1221.4	1250.5	1292.0	1324.5	1332.4
32.5°	6192.0	5128.8	2835.3	1481.6	1176.5	1126.0	1132.8	1157.4	1183.2	1201.2	1213.5
35°	6128.1	4904.5	2363.1	1249.4	1074.4	1046.4	1055.4	1068.8	1080.0	1093.5	1103.6
37.5°	6139.3	4730.7	1941.4	1104.7	1006.0	991.4	991.4	991.4	991.4	998.2	999.3
40°	6243.6	4630.8	1598.2	1012.7	960.0	944.3	932.0	920.8	911.8	916.3	914.1
42.5°	6510.5	4621.9	1347.0	954.4	923.0	897.2	872.6	856.9	845.6	850.1	852.4
45°	6963.6	4734.0	1177.6	912.9	888.3	849.0	817.6	800.8	792.9	807.5	809.8
47.5°	7550.2	4978.5	1074.4	882.7	855.7	804.1	770.5	754.8	757.0	778.3	784.0
50°	8306.1	5375.5	1025.1	863.6	833.3	766.0	731.2	717.8	724.5	754.8	761.5
52.5°	9136.1	5947.5	1030.7	858.0	818.7	738.0	701.0	685.3	696.5	724.5	730.1
55°	10093.9	6635.0	1123.8	865.8	797.4	720.0	676.3	649.4	658.3	684.1	688.6
57.5°	11158.2	7422.3	1311.1	863.6	770.5	703.2	650.5	610.1	616.8	632.5	637.0
60°	12266.3	8373.4	1601.6	870.3	758.2	683.0	615.7	565.3	563.0	576.5	578.7
62.5°	13596.4	9473.6	1933.5	874.8	766.0	657.2	569.7	520.4	513.7	517.0	519.3
65°	14966.9	10269.9	1809.0	856.9	790.7	635.9	529.4	476.7	464.3	462.1	463.2
67.5°	15009.6	9416.4	1268.5	821.0	800.8	624.7	499.1	439.6	419.5	411.6	410.5
70°	13460.7	7650.0	988.1	782.8	760.4	606.8	471.0	409.4	379.1	366.7	365.6
71°	12704.8	7042.1	936.5	763.8	730.1	588.8	458.7	395.9	364.5	351.0	348.8
72.5°	11519.3	6313.1	873.7	733.5	671.8	542.8	435.2	376.8	344.3	328.6	325.2
75°	8266.9	4128.4	750.3	653.9	556.3	432.9	381.3	338.7	310.7	291.6	289.4
77.5°	3185.2	1643.1	567.5	543.9	426.2	338.7	314.0	292.7	272.5	253.5	252.3
80°	984.7	734.6	413.8	409.4	308.4	252.3	244.5	238.9	231.0	210.8	206.4
82.5°	526.0	421.7	284.9	264.7	201.9	168.2	177.2	179.4	180.6	159.3	157.0
85°	251.2	223.2	160.4	150.3	117.8	94.2	108.8	117.8	118.9	97.6	90.8
87.5°	120.0	116.6	75.1	57.2	43.7	31.4	38.1	47.1	51.6	37.0	32.5
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)