

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: P323782

Luminaire Tested: **GAN-SA8D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42207 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

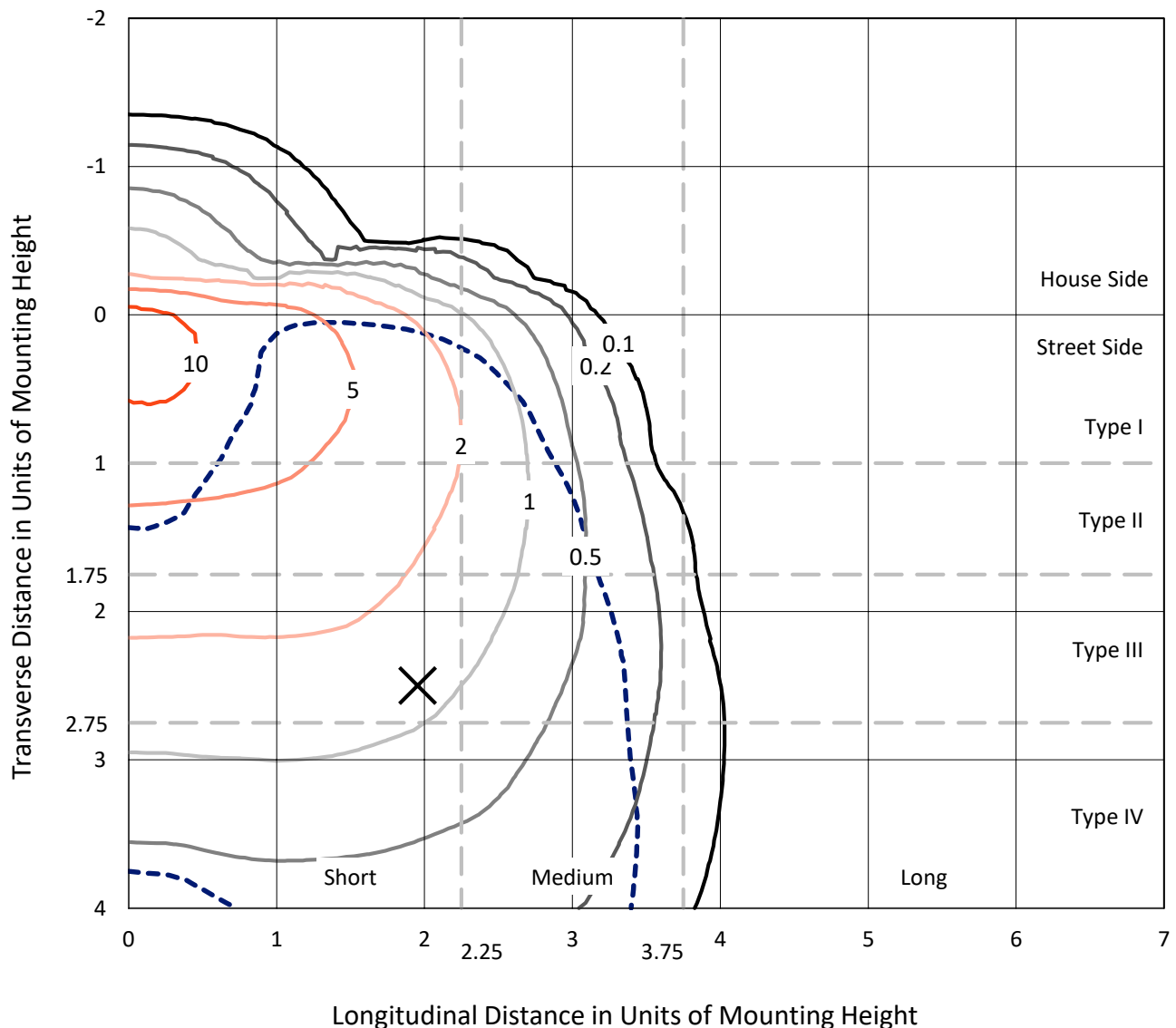
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

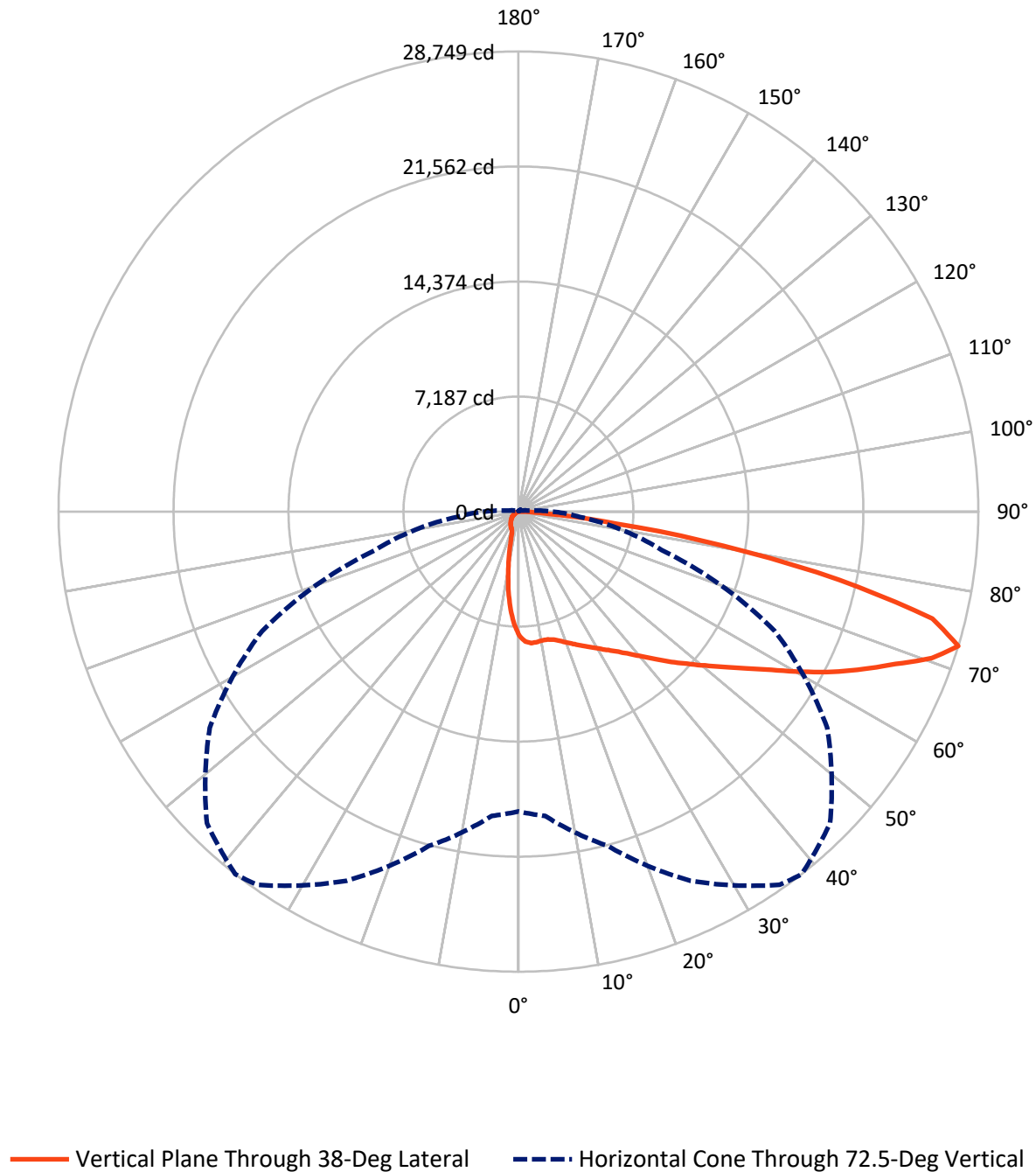
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3551.9	0.0	3551.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	38655.1	0.0	38655.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	42207.0	0.0	42207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.4	1.6
10°-20°	1617.4	3.8
20°-30°	2572.4	6.1
30°-40°	3867.4	9.2
40°-50°	5899.9	14.0
50°-60°	8338.6	19.8
60°-70°	10459.4	24.8
70°-80°	7820.7	18.5
80°-90°	969.7	2.3
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°	42207.0	100.0
0°-180°	42207.0	100.0

Coefficient of Utilization



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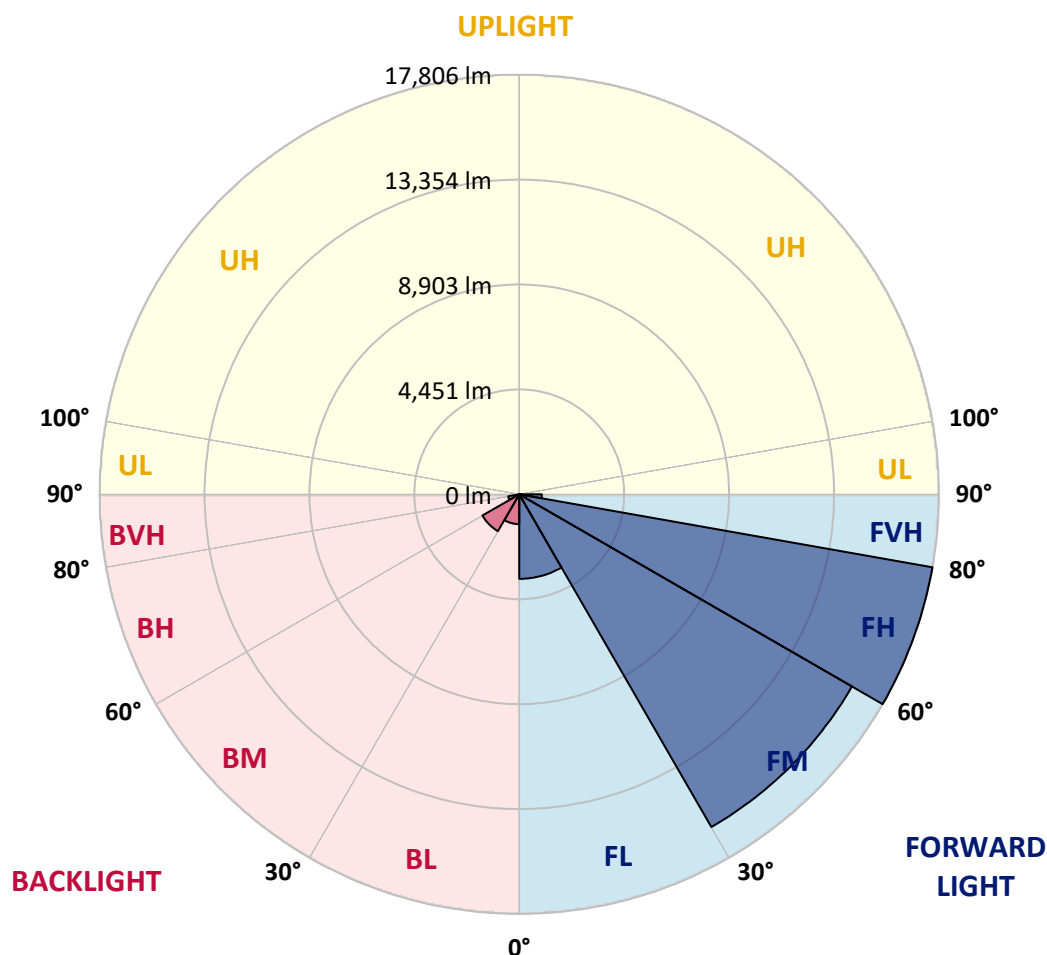
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3586.6	8.5			
FM	(30°-60°)	16302.2	38.6			
FH	(60°-80°)	17805.6	42.2			G5
FVH	(80°-90°)	960.7	2.3			G5
BL	(0°-30°)	1264.7	3.0	B3/2500		
BM	(30°-60°)	1803.7	4.3	B2/2500		
BH	(60°-80°)	474.5	1.1	B1/500		G1/500
BVH	(80°-90°)	9.0	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7
2.5°	8238.5	8240.3	8221.0	8189.4	8149.1	8128.1	8093.0	8036.9	7977.3	7870.4	7754.7
5°	8406.8	8406.8	8382.2	8340.2	8275.3	8256.0	8189.4	8100.0	7977.3	7803.8	7609.2
7.5°	8389.3	8392.8	8359.5	8315.6	8250.8	8233.3	8152.6	8052.7	7900.2	7689.9	7441.0
10°	8298.1	8306.9	8280.6	8259.5	8199.9	8180.7	8105.3	8005.4	7852.9	7628.5	7342.8
12.5°	8205.2	8214.0	8222.7	8242.0	8205.2	8198.2	8138.6	8054.5	7909.0	7675.8	7353.3
15°	8145.6	8163.1	8226.2	8301.6	8310.4	8303.4	8264.8	8185.9	8038.7	7796.8	7428.7
17.5°	8145.6	8173.7	8305.1	8448.9	8499.7	8504.9	8471.6	8361.2	8185.9	7926.5	7498.8
20°	8214.0	8252.5	8457.6	8661.0	8745.1	8745.1	8680.2	8526.0	8320.9	8043.9	7546.1
22.5°	8389.3	8440.1	8697.8	8932.6	9022.0	9002.8	8915.1	8690.8	8461.1	8177.2	7605.7
25°	8734.6	8773.1	9041.3	9278.0	9332.3	9288.5	9178.1	8890.6	8639.9	8357.7	7714.4
27.5°	9179.8	9185.1	9462.0	9661.8	9628.5	9598.7	9460.3	9141.2	8897.6	8615.4	7902.0
30°	9668.9	9668.9	9912.5	10065.0	9963.3	9938.8	9800.3	9444.5	9227.1	8966.0	8168.4
32.5°	10142.1	10163.2	10361.2	10457.6	10343.7	10319.2	10184.2	9828.4	9665.3	9500.6	8583.8
35°	10599.6	10615.4	10803.0	10855.6	10746.9	10753.9	10657.5	10356.0	10294.6	10273.6	9209.6
37.5°	11043.1	11046.6	11237.7	11271.0	11216.6	11276.2	11285.0	11018.6	11132.5	11302.5	10091.3
40°	11448.0	11451.5	11640.8	11726.7	11819.6	11896.8	11965.1	11823.1	12200.0	12594.4	11141.3
42.5°	11772.3	11809.1	12049.3	12212.3	12457.7	12604.9	12790.7	12783.7	13470.8	14063.3	12410.4
45°	12058.0	12121.1	12455.9	12741.6	13162.3	13397.2	13688.2	13916.1	14901.2	15698.7	13695.2
47.5°	12434.9	12494.5	12876.6	13344.6	13905.6	14214.1	14696.1	15188.7	16473.5	17304.4	14950.3
50°	12966.0	12939.7	13316.6	13987.9	14708.4	15113.3	15800.4	16538.4	18033.6	18703.2	15688.2
52.5°	13532.2	13521.7	13800.4	14687.3	15654.9	16128.2	17036.2	17933.7	19525.3	19667.3	16026.5
55°	14233.3	14158.0	14392.9	15484.9	16778.5	17286.8	18356.1	19314.9	20713.7	20210.6	16196.6
57.5°	14967.8	14843.3	15067.7	16373.6	18045.8	18647.1	19818.0	20661.1	21504.3	20582.3	16194.8
60°	15726.8	15579.5	15846.0	17484.9	19619.9	20315.8	21402.6	21570.9	22242.2	20769.8	16075.6
62.5°	16361.3	16273.7	16669.8	18673.4	21378.1	22061.7	22599.8	22398.2	22864.5	20915.3	15796.9
65°	17032.7	17037.9	17677.7	20059.9	23246.6	23707.6	23753.2	23471.0	23385.1	20885.5	14853.9
67.5°	17940.7	18024.8	19092.3	21942.5	25064.4	25420.2	25416.7	24633.1	23765.5	19700.6	12762.7
70°	18901.2	19099.3	20722.5	24096.8	27048.6	27409.7	27223.9	25372.9	22377.2	15930.1	9032.6
72.5°	18740.0	19083.5	21628.7	25455.2	28473.7	28748.9	27541.2	23555.1	17686.5	9258.7	3845.8
75°	14457.7	14855.6	19832.0	24109.0	26978.5	26731.3	23663.8	18329.8	9665.3	2583.7	865.9
77.5°	7637.3	7849.4	13101.0	18366.6	21036.2	20519.1	16669.8	10168.4	2946.6	639.8	389.1
80°	4000.1	4049.1	5709.1	10420.8	12983.5	12987.0	9879.2	4466.3	1214.7	327.8	261.2
82.5°	2142.0	2184.1	3016.7	4815.1	6802.9	6166.6	3782.7	2457.5	706.4	185.8	250.7
85°	515.3	524.1	1710.8	2199.9	2674.9	1910.6	1123.6	2063.1	191.1	108.7	203.3
87.5°	198.1	201.6	634.5	951.8	681.9	441.7	525.9	769.5	24.5	42.1	31.6
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°	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7	7761.7
2.5°	7684.6	7639.0	7526.8	7384.9	7258.7	7167.5	7030.8	6941.4	6881.8	6880.0	6857.2
5°	7490.0	7397.1	7155.2	6867.8	6606.6	6371.7	6094.7	5875.6	5712.6	5686.3	5630.2
7.5°	7281.4	7128.9	6757.3	6308.6	5870.4	5425.1	4908.0	4587.3	4312.1	4180.6	4166.6
10°	7153.5	6939.6	6412.0	5763.5	5076.3	4352.4	3675.8	3207.8	2869.5	2773.0	2701.2
12.5°	7127.2	6845.0	6145.6	5251.6	4270.0	3312.9	2564.5	2066.6	1796.7	1710.8	1688.0
15°	7153.5	6801.2	5921.2	4745.0	3453.2	2350.6	1721.3	1432.1	1330.4	1305.9	1304.1
17.5°	7169.3	6748.6	5667.0	4182.4	2660.9	1679.3	1318.2	1234.0	1218.2	1216.5	1220.0
20°	7167.5	6667.9	5363.8	3554.8	1979.0	1319.9	1192.0	1174.4	1170.9	1172.7	1170.9
22.5°	7155.2	6573.3	5030.7	2908.0	1495.2	1179.7	1137.6	1127.1	1125.3	1125.3	1125.3
25°	7178.0	6497.9	4664.4	2289.3	1232.3	1114.8	1088.5	1079.8	1078.0	1078.0	1074.5
27.5°	7260.4	6455.8	4263.0	1761.6	1113.1	1057.0	1035.9	1034.2	1028.9	1027.2	1030.7
30°	7393.6	6455.8	3823.0	1370.7	1041.2	997.4	981.6	978.1	976.4	974.6	976.4
32.5°	7628.5	6504.9	3342.7	1139.4	972.8	930.8	920.3	925.5	920.3	920.3	920.3
35°	8052.7	6652.2	2839.7	993.9	901.0	865.9	855.4	862.4	858.9	858.9	857.2
37.5°	8671.5	6925.6	2333.1	906.2	837.9	801.1	787.0	797.6	794.1	794.1	792.3
40°	9425.2	7323.5	1851.0	839.6	776.5	738.0	725.7	730.9	722.2	722.2	725.7
42.5°	10356.0	7828.3	1430.3	774.8	715.2	678.4	671.4	666.1	650.3	641.6	643.3
45°	11390.2	8354.2	1114.8	711.7	657.3	627.5	617.0	603.0	576.7	559.2	560.9
47.5°	12313.9	8759.1	906.2	650.3	604.7	582.0	566.2	539.9	501.3	480.3	482.0
50°	12799.5	8820.5	771.3	589.0	555.7	532.9	510.1	469.8	424.2	401.4	399.7
52.5°	12923.9	8533.0	671.4	532.9	506.6	480.3	450.5	396.1	345.3	320.8	317.3
55°	12969.5	8094.8	582.0	480.3	454.0	424.2	385.6	324.3	277.0	252.4	250.7
57.5°	12818.8	7441.0	511.8	433.0	401.4	364.6	317.3	259.4	213.9	194.6	194.6
60°	12484.0	6555.8	457.5	382.1	347.1	305.0	255.9	201.6	159.5	143.7	143.7
62.5°	11816.1	5409.4	406.7	329.5	296.2	252.4	206.8	152.5	112.2	103.4	105.2
65°	10555.8	4103.5	355.8	282.2	252.4	208.6	161.3	108.7	75.4	75.4	78.9
67.5°	8608.4	2850.2	303.2	240.1	217.4	170.0	122.7	75.4	52.6	59.6	66.6
70°	5698.6	1598.6	259.4	198.1	185.8	135.0	91.1	50.8	42.1	56.1	68.4
72.5°	2150.8	622.3	217.4	159.5	161.3	103.4	64.9	38.6	38.6	61.4	80.6
75°	599.5	305.0	156.0	117.4	126.2	75.4	47.3	33.3	36.8	70.1	94.7
77.5°	352.3	224.4	101.7	68.4	85.9	52.6	31.6	26.3	31.6	59.6	91.1
80°	284.0	119.2	59.6	35.1	47.3	29.8	21.0	15.8	8.8	22.8	47.3
82.5°	284.0	71.9	28.0	24.5	24.5	15.8	10.5	7.0	1.8	0.0	12.3
85°	191.1	29.8	17.5	15.8	12.3	5.3	3.5	1.8	0.0	0.0	0.0
87.5°	31.6	12.3	7.0	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
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)