

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: P319783

Luminaire Tested: **GAN-SA9D-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319783
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-SA9D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA 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: 69370 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 575
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

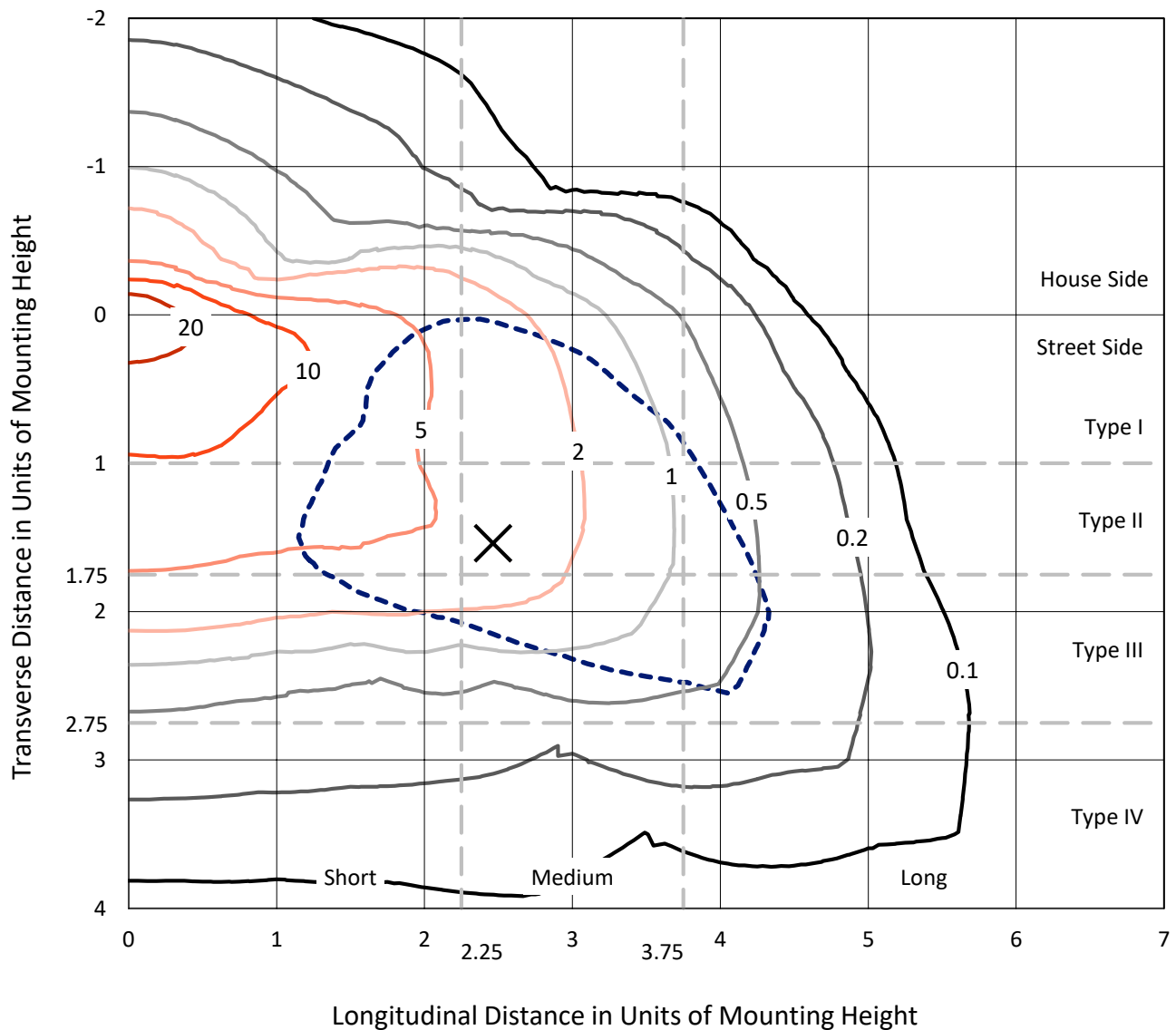


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Iso-Footcandle Lines of Horizontal Illumination

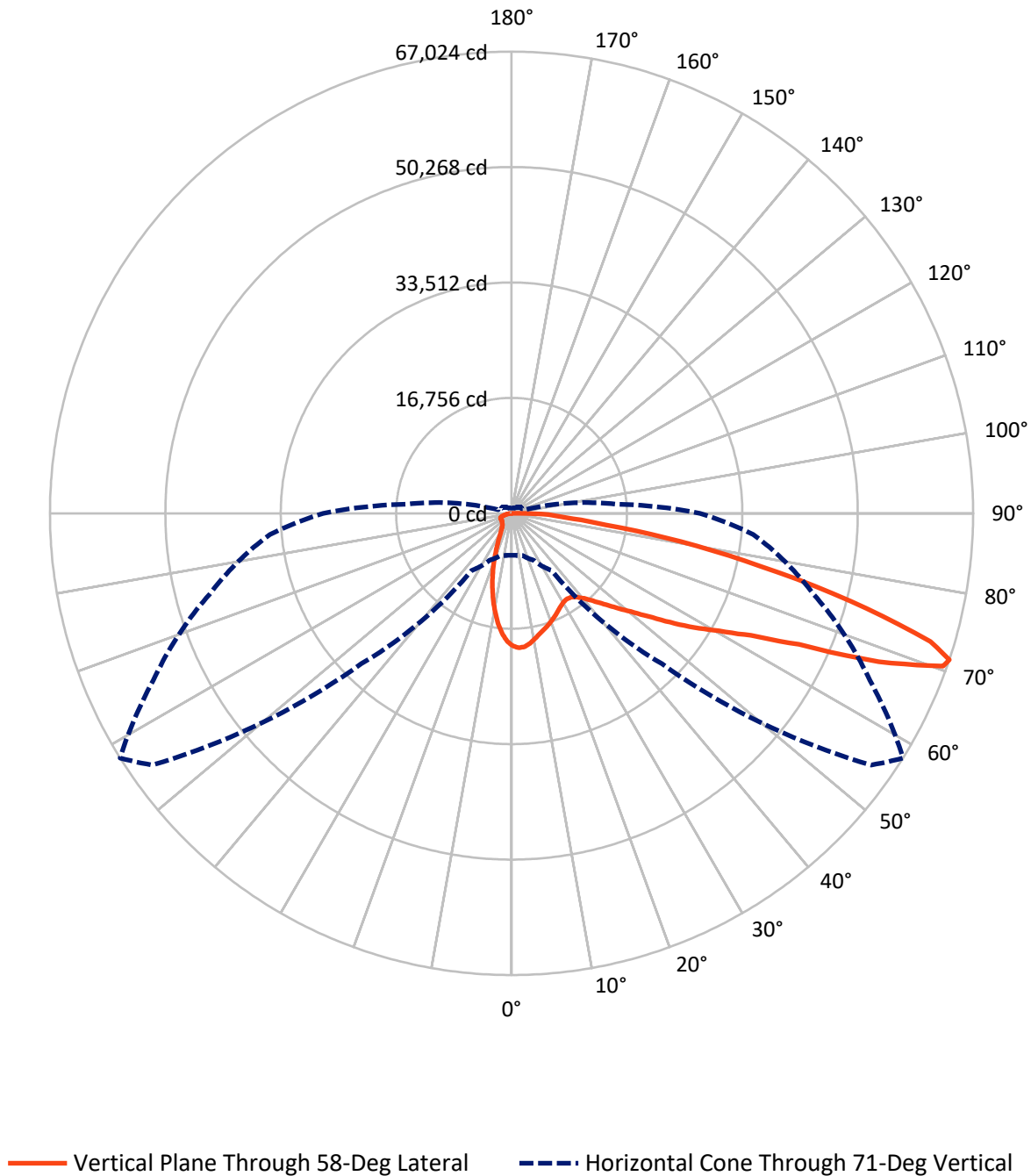
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10371.3	0.0	10371.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	58998.7	0.0	58998.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	69370.0	0.0	69370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1658.1	2.4
10°-20°	3687.0	5.3
20°-30°	4685.8	6.8
30°-40°	5968.8	8.6
40°-50°	8464.1	12.2
50°-60°	13098.5	18.9
60°-70°	17831.9	25.7
70°-80°	11895.9	17.1
80°-90°	2079.8	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°	69370.0	100.0
0°-180°	69370.0	100.0

Coefficient of Utilization



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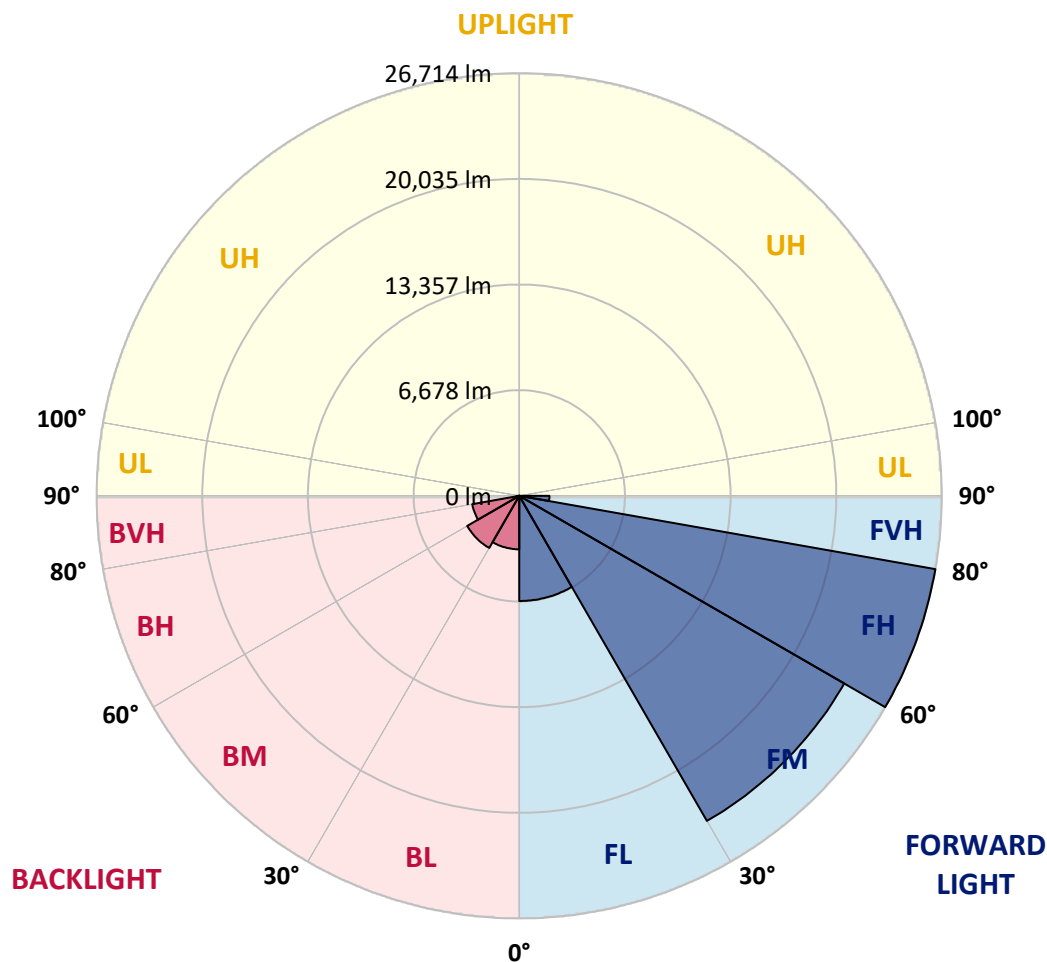
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6650.3	9.6			
FM	(30°-60°)	23727.9	34.2			
FH	(60°-80°)	26713.5	38.5			G5
FVH	(80°-90°)	1907.0	2.7			G5
BL	(0°-30°)	3380.7	4.9	B4/5000		
BM	(30°-60°)	3803.4	5.5	B3/5000		
BH	(60°-80°)	3014.3	4.3	B4/5000		G4/5000
BVH	(80°-90°)	172.8	0.2			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1
2.5°	19730.0	19703.4	19713.1	19693.7	19647.8	19601.9	19534.3	19546.3	19452.1	19312.0	19138.0
5°	19357.9	19348.2	19420.7	19461.8	19495.6	19469.0	19449.7	19473.9	19336.1	19142.8	18840.8
7.5°	18577.4	18471.0	18562.9	18700.6	18831.1	18930.2	19060.6	19077.6	18990.6	18787.6	18391.3
10°	17468.2	17366.7	17502.1	17717.1	17978.1	18214.9	18478.3	18526.6	18543.5	18359.9	17879.0
12.5°	16318.0	16240.7	16376.0	16678.1	17110.6	17475.5	17895.9	17968.4	18118.2	17995.0	17405.4
15°	15288.6	15259.6	15423.9	15721.2	16218.9	16777.1	17383.7	17516.6	17770.3	17729.2	17035.7
17.5°	14399.4	14392.1	14517.8	14829.5	15380.5	16086.0	16873.8	17098.5	17475.5	17523.8	16731.2
20°	13737.3	13722.8	13809.8	14039.3	14607.2	15407.0	16322.9	16632.2	17175.8	17345.0	16417.1
22.5°	13382.1	13379.7	13382.1	13490.8	13954.8	14699.0	15786.4	16163.4	16883.5	17202.4	16069.1
25°	13321.7	13314.4	13261.3	13249.2	13512.6	14107.0	15254.8	15670.4	16605.6	17103.4	15738.1
27.5°	13478.7	13488.4	13418.3	13304.8	13357.9	13718.0	14793.3	15237.9	16383.3	17084.0	15508.5
30°	13805.0	13800.1	13739.7	13621.3	13517.4	13573.0	14464.6	14909.3	16233.4	17168.6	15351.5
32.5°	14165.0	14191.6	14179.5	14114.3	13959.6	13737.3	14365.6	14800.5	16189.9	17371.6	15283.8
35°	14597.5	14626.5	14713.5	14764.3	14583.0	14225.4	14578.2	14955.2	16315.6	17753.4	15392.5
37.5°	15008.3	15083.2	15327.3	15542.4	15387.7	14989.0	15143.6	15411.9	16704.6	18355.1	15684.9
40°	15481.9	15547.2	15945.9	16402.6	16378.4	15965.2	16054.6	16233.4	17390.9	19217.7	16214.1
42.5°	15948.3	16078.8	16656.3	17303.9	17490.0	17125.1	17267.7	17361.9	18357.5	20360.7	17137.2
45°	16569.3	16709.5	17511.7	18292.2	18727.2	18521.8	18748.9	18785.2	19572.9	21916.8	18478.3
47.5°	17509.3	17668.8	18603.9	19423.1	20087.6	20109.4	20483.9	20469.4	21090.4	23697.7	20167.4
50°	18973.7	19203.2	19969.2	20735.2	21542.3	21991.7	22491.9	22421.9	22910.0	25594.6	22112.6
52.5°	20892.3	20998.6	21566.5	22131.9	23134.7	24142.4	24860.0	24797.2	24973.6	27544.7	24321.2
55°	22881.0	22960.7	23195.1	23504.4	24852.8	26495.9	28013.4	27914.4	27467.3	29569.6	26503.2
57.5°	24669.1	24831.0	24992.9	25121.0	26582.9	28955.8	31239.4	31246.6	30173.7	31754.0	28757.7
60°	24947.0	25089.6	26160.1	27170.1	29543.0	32237.3	34692.4	34619.9	32974.3	34124.5	31270.8
62.5°	22052.2	22373.5	24161.7	26848.7	32394.4	38239.7	39097.5	39008.1	36323.5	37046.0	34197.0
65°	15803.3	16168.2	18326.1	22363.9	31012.2	44853.4	47047.5	45844.1	40890.5	40639.2	37623.5
67.5°	9117.1	9204.1	10139.3	13382.1	23613.2	45199.0	59175.5	57491.2	47982.7	44715.7	39300.5
70°	6741.8	6739.4	6961.7	8235.1	12778.0	36888.9	64943.4	66453.7	55449.4	46056.8	36930.0
71°	6096.6	6103.9	6352.7	7495.7	10119.9	30876.9	63718.3	67024.0	57416.3	45394.7	35214.3
72.5°	5214.6	5238.8	5584.3	6722.5	8513.0	21293.4	58440.9	63602.3	58349.1	43761.2	32529.7
75°	3955.7	4011.2	4489.7	5666.5	7780.8	10798.9	42891.3	50788.1	51834.4	38614.2	24171.4
77.5°	2822.4	2885.2	3426.5	4765.2	7396.6	8138.5	28723.9	37046.0	38145.5	24746.5	10902.8
80°	1783.3	1858.2	2266.6	3791.3	6949.6	7727.7	18050.6	24901.1	20800.5	7918.6	2774.0
82.5°	1046.3	1104.3	1406.4	2476.8	5676.1	7442.5	10620.1	13802.5	8095.0	2392.2	1261.4
85°	606.5	633.1	877.2	1577.9	4122.4	7024.5	7802.6	7715.6	3513.5	1169.5	596.9
87.5°	282.7	314.1	519.5	824.0	2288.3	5091.4	6166.7	5328.2	2184.4	548.5	280.3
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°	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1	19220.1
2.5°	19053.4	19012.3	18840.8	18688.5	18529.0	18321.2	18091.7	18062.7	17922.5	17949.1	17900.8
5°	18676.4	18572.5	18159.3	17784.8	17342.6	16946.3	16516.2	16318.0	16032.9	16013.6	15941.1
7.5°	18137.6	17944.3	17303.9	16593.5	15883.1	15206.5	14537.1	14097.3	13647.9	13457.0	13440.1
10°	17531.1	17202.4	16260.0	15208.9	14184.3	13196.0	12239.1	11531.1	10893.2	10591.1	10579.0
12.5°	16956.0	16470.3	15177.5	13747.0	12345.4	11064.7	9752.6	8822.3	8022.5	7754.3	7640.7
15°	16467.8	15784.0	14123.9	12294.7	10593.5	8815.1	7321.7	6343.1	5603.7	5347.5	5299.2
17.5°	15994.2	15114.6	13043.8	10827.9	8771.6	6816.7	5320.9	4593.6	4199.7	4095.8	4093.4
20°	15523.0	14426.0	11915.3	9327.3	7010.0	5098.6	4091.0	3764.8	3631.9	3619.8	3600.5
22.5°	14989.0	13696.2	10728.9	7821.9	5470.8	4008.8	3477.2	3346.7	3329.8	3373.3	3373.3
25°	14488.8	12971.3	9525.5	6347.9	4255.3	3344.3	3105.1	3078.5	3124.4	3201.7	3209.0
27.5°	14022.4	12272.9	8351.1	5038.2	3409.6	2945.6	2846.5	2877.9	2960.1	3049.5	3051.9
30°	13638.2	11613.3	7210.6	3970.2	2880.4	2648.4	2631.5	2694.3	2783.7	2853.8	2870.7
32.5°	13341.0	11050.2	6108.7	3192.1	2534.8	2426.1	2440.6	2493.7	2549.3	2588.0	2614.6
35°	13203.3	10567.0	5091.4	2691.9	2314.9	2254.5	2273.8	2302.8	2327.0	2356.0	2377.7
37.5°	13227.4	10192.4	4182.8	2380.2	2167.5	2136.1	2136.1	2136.1	2136.1	2150.6	2153.0
40°	13452.2	9977.4	3443.4	2182.0	2068.4	2034.6	2008.0	1983.9	1964.5	1974.2	1969.4
42.5°	14027.3	9958.0	2902.1	2056.4	1988.7	1933.1	1880.0	1846.1	1822.0	1831.6	1836.5
45°	15003.5	10199.7	2537.2	1967.0	1913.8	1829.2	1761.6	1725.3	1708.4	1739.8	1744.6
47.5°	16267.3	10726.4	2314.9	1901.7	1843.7	1732.6	1660.1	1626.2	1631.1	1677.0	1689.1
50°	17895.9	11581.9	2208.6	1860.6	1795.4	1650.4	1575.5	1546.5	1561.0	1626.2	1640.7
52.5°	19684.1	12814.2	2220.7	1848.6	1764.0	1590.0	1510.3	1476.4	1500.6	1561.0	1573.1
55°	21747.7	14295.5	2421.2	1865.5	1718.1	1551.3	1457.1	1399.1	1418.4	1474.0	1483.7
57.5°	24040.9	15991.8	2824.8	1860.6	1660.1	1515.1	1401.5	1314.5	1329.0	1362.9	1372.5
60°	26428.3	18040.9	3450.6	1875.1	1633.5	1471.6	1326.6	1217.9	1213.0	1242.0	1246.9
62.5°	29294.1	20411.4	4165.9	1884.8	1650.4	1416.0	1227.5	1121.2	1106.7	1114.0	1118.8
65°	32247.0	22127.1	3897.7	1846.1	1703.6	1370.1	1140.5	1027.0	1000.4	995.6	998.0
67.5°	32338.8	20288.2	2733.0	1768.8	1725.3	1345.9	1075.3	947.2	903.7	886.8	884.4
70°	29001.8	16482.3	2128.9	1686.7	1638.3	1307.3	1014.9	882.0	816.7	790.2	787.7
71°	27373.1	15172.6	2017.7	1645.6	1573.1	1268.6	988.3	853.0	785.3	756.3	751.5
72.5°	24819.0	13602.0	1882.4	1580.3	1447.4	1169.5	937.6	811.9	741.8	708.0	700.8
75°	17811.4	8894.8	1616.6	1408.8	1198.5	932.7	821.6	729.8	669.3	628.3	623.4
77.5°	6862.6	3540.0	1222.7	1172.0	918.2	729.8	676.6	630.7	587.2	546.1	543.7
80°	2121.6	1582.7	891.7	882.0	664.5	543.7	526.8	514.7	497.8	454.3	444.6
82.5°	1133.3	908.6	613.8	570.3	435.0	362.5	381.8	386.6	389.0	343.1	338.3
85°	541.3	480.9	345.5	323.8	253.7	203.0	234.4	253.7	256.1	210.2	195.7
87.5°	258.6	251.3	161.9	123.2	94.2	67.7	82.2	101.5	111.2	79.7	70.1
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)