

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: P320133

Luminaire Tested: **GAN-SA9C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44171 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

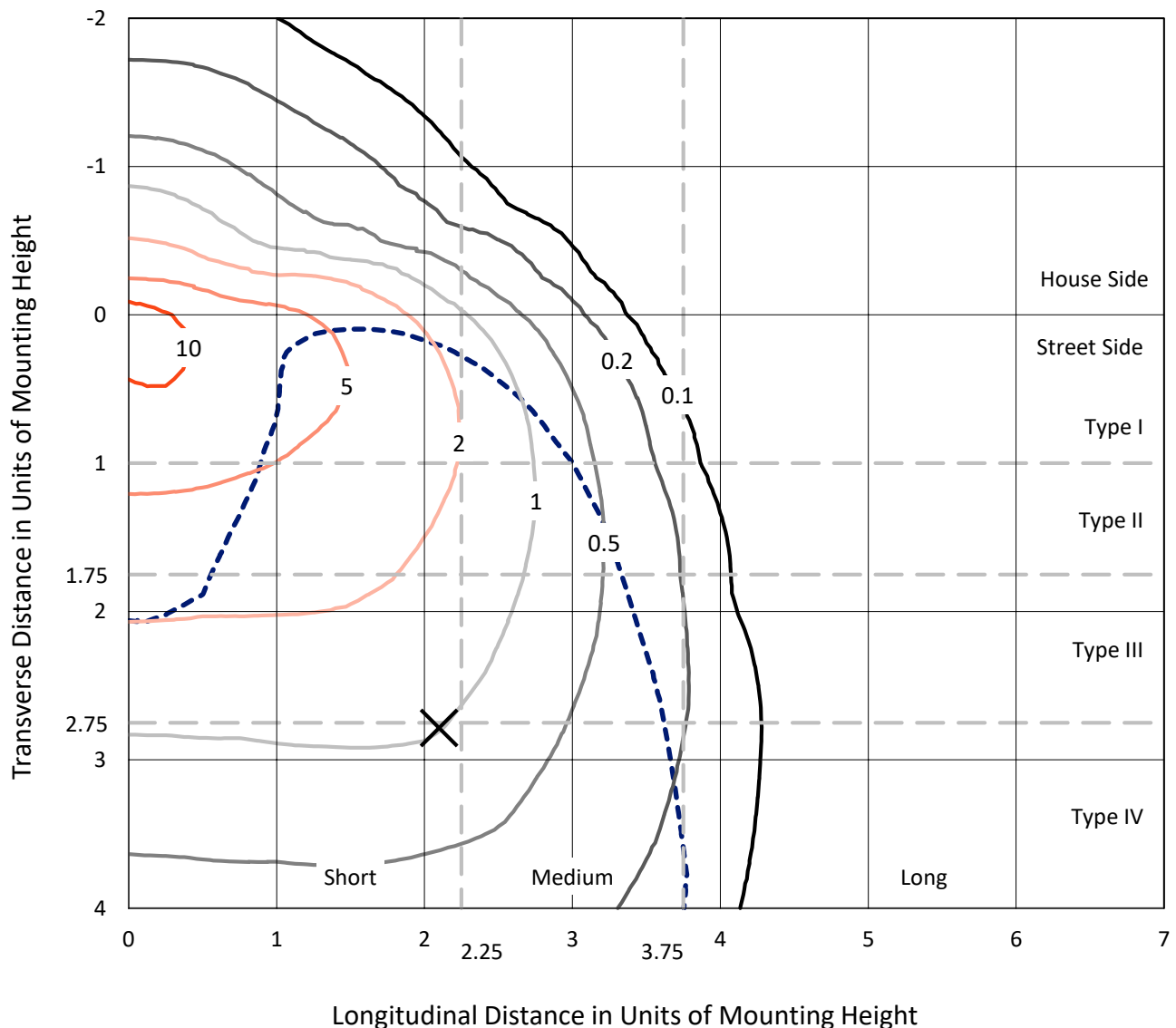
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

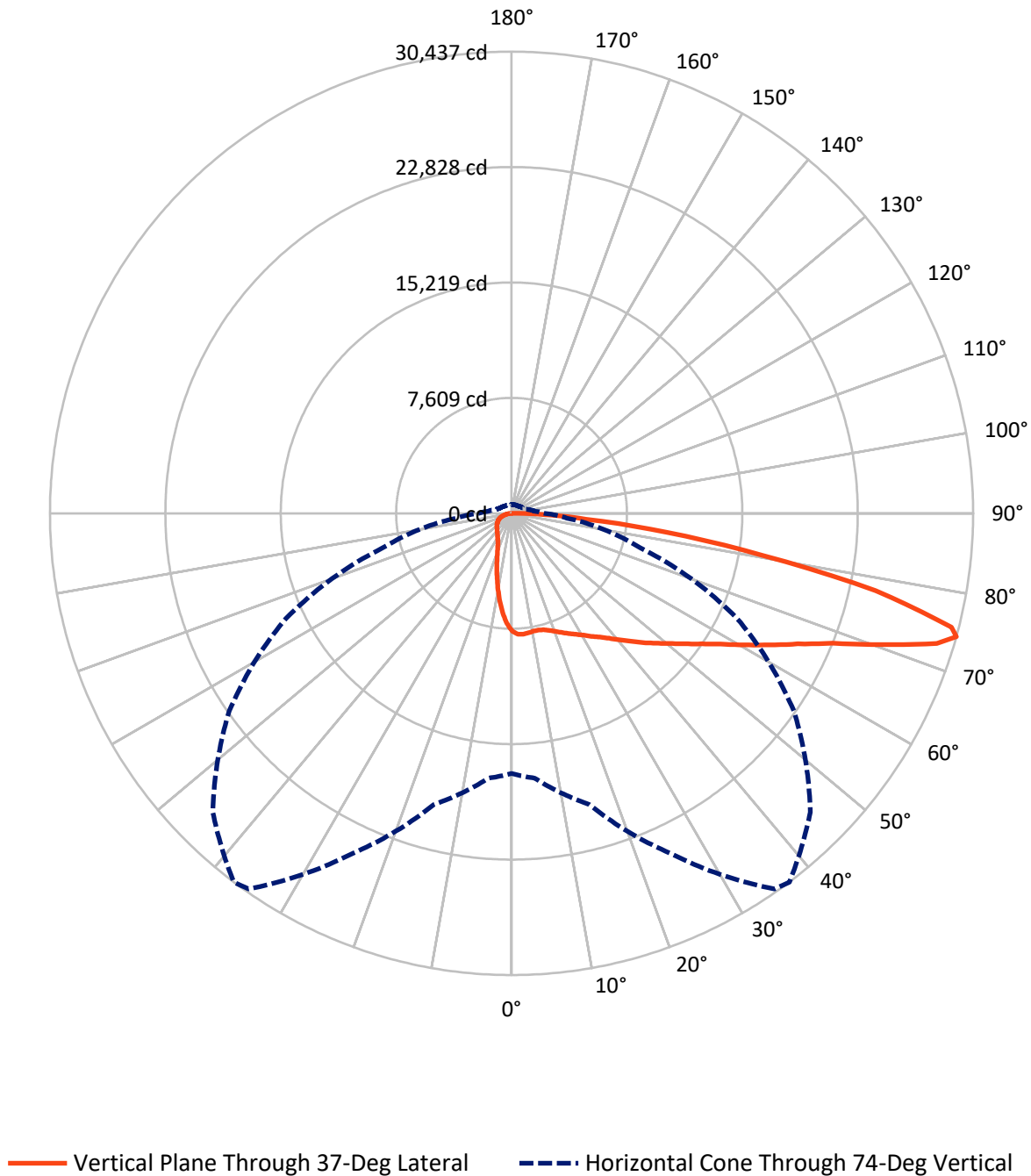
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	6077.6	0.0	6077.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	38093.4	0.0	38093.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	44171.0	0.0	44171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.4	1.6
10°-20°	1756.8	4.0
20°-30°	2706.8	6.1
30°-40°	3936.1	8.9
40°-50°	5793.3	13.1
50°-60°	8135.6	18.4
60°-70°	10297.2	23.3
70°-80°	9067.1	20.5
80°-90°	1792.8	4.1
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°	44171.0	100.0
0°-180°	44171.0	100.0

Coefficient of Utilization



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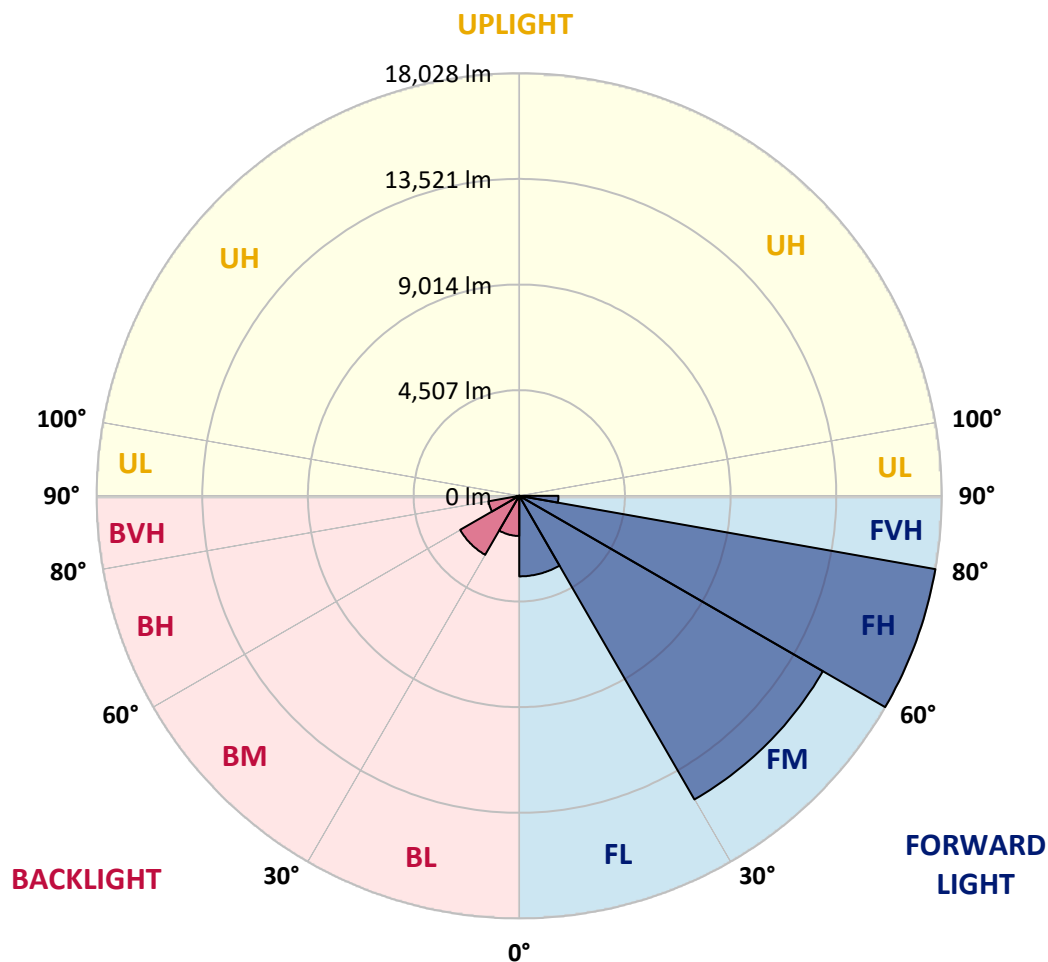
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3437.0	7.8			
FM	(30°-60°)	14956.6	33.9			
FH	(60°-80°)	18028.4	40.8			G5
FVH	(80°-90°)	1671.4	3.8			G5
BL	(0°-30°)	1711.9	3.9	B3/2500		
BM	(30°-60°)	2908.4	6.6	B3/5000		
BH	(60°-80°)	1335.9	3.0	B3/2500		G3/2500
BVH	(80°-90°)	121.4	0.3			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8
2.5°	8048.8	8050.4	8048.8	8036.4	8006.8	7981.9	7961.7	7932.1	7866.8	7817.0	7742.3
5°	8125.1	8115.7	8109.5	8086.2	8039.5	8011.5	7972.6	7916.6	7809.2	7709.6	7588.3
7.5°	8089.3	8078.4	8064.4	8036.4	7983.5	7960.1	7905.7	7832.5	7703.4	7572.7	7398.4
10°	7978.8	7975.7	7969.5	7963.2	7918.1	7899.5	7849.7	7771.9	7644.3	7485.6	7281.7
12.5°	7855.9	7863.7	7888.6	7921.2	7901.0	7891.7	7860.6	7807.7	7677.0	7505.8	7260.0
15°	7778.1	7799.9	7866.8	7952.4	7969.5	7966.4	7958.6	7924.3	7785.9	7596.0	7309.8
17.5°	7751.6	7787.4	7915.0	8056.6	8106.4	8117.3	8120.4	8061.3	7907.2	7706.5	7361.1
20°	7799.9	7845.0	8031.7	8226.2	8305.6	8311.8	8297.8	8195.1	8022.4	7801.4	7389.1
22.5°	7946.1	7986.6	8220.0	8439.4	8529.6	8538.9	8496.9	8341.3	8143.7	7913.5	7428.0
25°	8227.8	8277.5	8510.9	8730.3	8777.0	8778.6	8717.9	8524.9	8302.4	8070.6	7512.0
27.5°	8595.0	8644.7	8854.8	9069.5	9044.6	9030.6	8948.2	8755.2	8509.4	8286.9	7661.4
30°	9004.2	9058.6	9257.8	9410.3	9351.1	9323.1	9256.2	9007.3	8797.2	8582.5	7890.1
32.5°	9427.4	9477.2	9651.4	9755.7	9681.0	9668.5	9567.4	9340.2	9172.2	9033.7	8260.4
35°	9861.5	9897.3	10068.4	10127.5	10028.0	10024.9	9996.8	9788.4	9682.5	9747.9	8798.8
37.5°	10304.9	10314.3	10460.5	10463.6	10434.1	10446.5	10476.1	10345.4	10374.9	10578.8	9498.9
40°	10700.1	10725.0	10830.8	10863.5	10914.8	10958.4	11106.2	11020.6	11249.4	11610.3	10370.3
42.5°	10992.6	11040.9	11210.5	11294.5	11461.0	11529.4	11737.9	11817.3	12277.8	12819.3	11406.5
45°	11240.0	11314.7	11587.0	11759.7	12041.3	12161.1	12459.9	12725.9	13440.1	14131.0	12497.2
47.5°	11507.7	11602.6	11943.3	12273.2	12655.9	12791.3	13334.3	13732.6	14680.2	15450.4	13525.7
50°	11901.3	11974.4	12307.4	12825.5	13303.2	13477.5	14229.0	14800.0	15940.5	16707.6	14417.2
52.5°	12450.5	12422.5	12704.2	13430.8	14071.8	14286.5	15184.3	15935.8	17217.9	17845.0	15170.3
55°	13002.9	12956.2	13153.8	14064.0	14968.0	15193.7	16236.1	17076.3	18433.1	18868.8	15747.6
57.5°	13617.5	13528.8	13695.3	14778.2	15988.7	16257.9	17414.0	18288.4	19628.0	19696.5	16114.8
60°	14250.8	14131.0	14317.7	15663.5	17284.8	17602.2	18792.5	19470.9	20754.5	20359.3	16233.0
62.5°	14804.7	14720.6	15008.5	16651.6	18745.8	19094.4	20146.2	20728.1	21865.5	20634.7	15806.7
65°	15288.6	15302.6	15800.5	17762.5	20374.9	20746.8	21699.0	22277.8	22739.9	20471.4	14809.3
67.5°	15865.8	15945.2	16794.7	19225.1	22425.6	22833.3	23958.2	23967.5	23228.5	19512.9	12845.8
70°	16707.6	16870.9	18162.4	21254.0	25341.4	25901.6	26769.8	24960.2	22542.3	16914.5	10107.3
72.5°	17454.4	17759.4	19617.2	23575.4	28895.2	29319.9	28414.4	24387.6	19674.7	12676.2	6296.8
74°	17151.0	17529.1	19881.7	24719.1	30233.3	30437.1	27858.9	22716.6	16404.2	8778.6	3659.5
75°	16497.5	16908.3	19495.8	24708.2	30063.7	29950.1	26517.7	20807.4	13510.1	5987.2	2435.0
77.5°	13314.1	13748.2	16427.5	21176.2	24650.6	24543.2	20370.2	13958.2	5917.2	1963.6	1237.0
80°	7740.7	8072.2	10197.6	13447.9	16622.0	16816.5	13396.6	6906.8	2327.7	1103.2	838.6
82.5°	3438.6	3667.3	4926.1	6864.8	10031.1	10281.6	7015.7	3619.1	1437.7	670.6	504.1
85°	2256.1	2425.7	2990.5	3269.0	4776.7	4947.9	3433.9	2817.8	949.1	368.8	370.3
87.5°	1622.8	1786.2	2221.9	1940.2	2192.3	2075.6	1868.7	2607.7	381.2	210.1	124.5
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°	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8	7782.8
2.5°	7709.6	7684.7	7628.7	7522.9	7463.8	7414.0	7331.5	7283.3	7261.5	7260.0	7269.3
5°	7518.3	7460.7	7316.0	7138.6	6997.0	6867.9	6707.6	6611.1	6542.7	6502.2	6513.1
7.5°	7295.8	7205.5	6978.3	6695.2	6468.0	6217.5	5970.1	5822.3	5707.1	5621.6	5637.1
10°	7143.3	7018.8	6687.4	6279.7	5901.6	5537.6	5196.8	4993.0	4831.2	4706.7	4716.0
12.5°	7091.9	6923.9	6464.9	5920.3	5389.7	4891.8	4446.8	4134.1	3967.6	3826.0	3836.9
15°	7099.7	6874.1	6278.2	5596.7	4929.2	4302.1	3762.2	3396.6	3171.0	3073.0	3074.5
17.5°	7105.9	6816.5	6082.1	5249.7	4473.3	3751.3	3164.8	2794.4	2581.3	2491.0	2492.6
20°	7085.7	6723.2	5839.4	4851.4	3997.2	3245.7	2677.8	2363.5	2201.6	2131.6	2131.6
22.5°	7059.3	6612.7	5565.6	4451.5	3527.3	2806.9	2329.2	2089.6	1996.3	1949.6	1948.0
25°	7071.7	6530.2	5285.5	4040.7	3094.7	2456.8	2097.4	1938.7	1876.5	1846.9	1845.3
27.5°	7138.6	6491.3	5027.2	3631.5	2716.7	2193.9	1941.8	1829.8	1789.3	1770.6	1770.6
30°	7260.0	6491.3	4758.0	3283.0	2402.4	1999.4	1822.0	1745.8	1717.7	1705.3	1705.3
32.5°	7471.6	6527.1	4498.2	2937.6	2151.9	1846.9	1722.4	1671.1	1649.3	1643.1	1643.1
35°	7835.7	6648.5	4244.6	2610.8	1949.6	1722.4	1627.5	1597.9	1582.4	1580.8	1585.5
37.5°	8347.6	6895.9	4006.5	2369.7	1806.4	1621.3	1548.1	1524.8	1515.5	1523.3	1529.5
40°	8991.7	7232.0	3790.2	2151.9	1697.5	1540.4	1475.0	1459.5	1454.8	1465.7	1475.0
42.5°	9769.7	7686.3	3612.9	1994.7	1613.5	1471.9	1412.8	1394.1	1389.4	1401.9	1414.3
45°	10611.4	8174.9	3488.4	1878.0	1548.1	1420.6	1358.3	1338.1	1328.8	1335.0	1349.0
47.5°	11377.0	8637.0	3438.6	1795.5	1485.9	1377.0	1310.1	1285.2	1269.6	1266.5	1277.4
50°	12022.7	8980.8	3461.9	1745.8	1436.1	1328.8	1263.4	1235.4	1212.1	1198.1	1205.8
52.5°	12492.6	9197.1	3483.7	1724.0	1397.2	1275.9	1212.1	1185.6	1154.5	1131.2	1131.2
55°	12833.3	9246.9	3435.5	1706.9	1367.7	1218.3	1154.5	1129.6	1098.5	1072.0	1068.9
57.5°	12967.1	9106.9	3256.6	1682.0	1347.4	1163.8	1093.8	1075.1	1048.7	1017.6	1016.0
60°	12786.6	8674.3	2911.1	1629.1	1321.0	1118.7	1033.1	1020.7	1008.2	978.7	977.1
62.5°	12061.6	7725.2	2464.6	1521.7	1268.1	1070.5	977.1	983.3	984.9	964.7	961.6
65°	10746.8	6421.3	2028.9	1381.7	1188.7	1012.9	919.6	949.1	966.2	963.1	958.5
67.5°	8836.1	4997.6	1719.3	1233.9	1084.5	933.6	857.3	891.5	905.6	916.4	913.3
70°	6558.2	3524.2	1422.1	1078.3	958.5	840.2	776.4	793.5	784.2	796.6	801.3
72.5°	3656.4	2114.5	1159.2	922.7	827.8	731.3	686.2	683.1	662.8	662.8	662.8
74°	2193.9	1551.3	1019.1	826.2	748.4	659.7	620.8	606.8	588.1	589.7	588.1
75°	1764.4	1333.4	935.1	762.4	692.4	617.7	578.8	560.1	546.1	546.1	544.6
77.5°	1114.0	1012.9	753.1	606.8	553.9	508.8	482.3	457.4	457.4	455.9	454.3
80°	841.8	806.0	586.6	459.0	424.8	390.5	373.4	362.5	362.5	367.2	365.6
82.5°	577.2	606.8	412.3	320.5	303.4	278.5	275.4	277.0	272.3	266.1	264.5
85°	421.7	455.9	278.5	202.3	185.2	169.6	182.0	188.3	180.5	166.5	160.3
87.5°	161.8	298.7	149.4	84.0	77.8	66.9	77.8	80.9	87.1	68.5	70.0
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)