

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: P318852

Luminaire Tested: **GAN-SA8C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41922 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

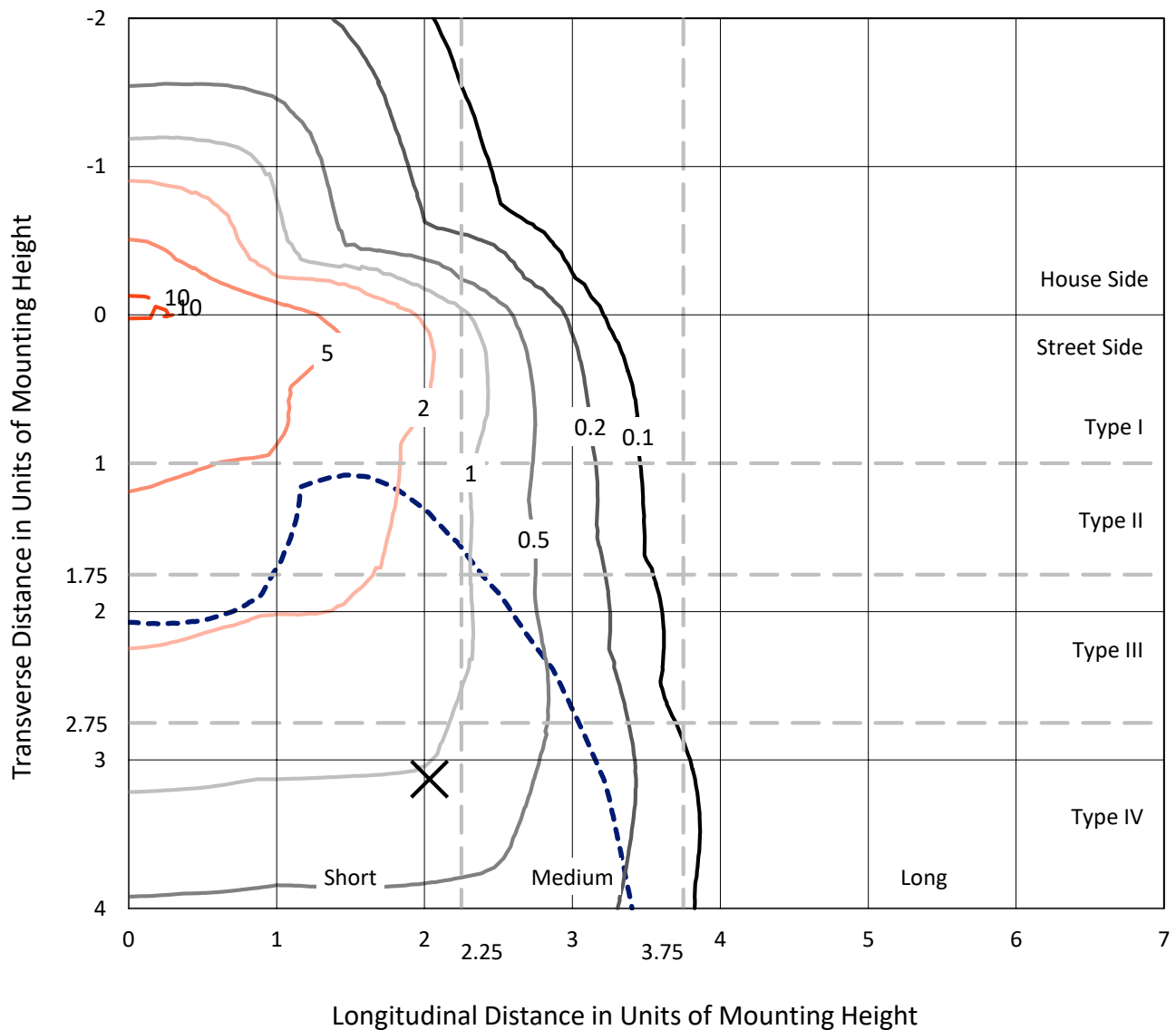
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

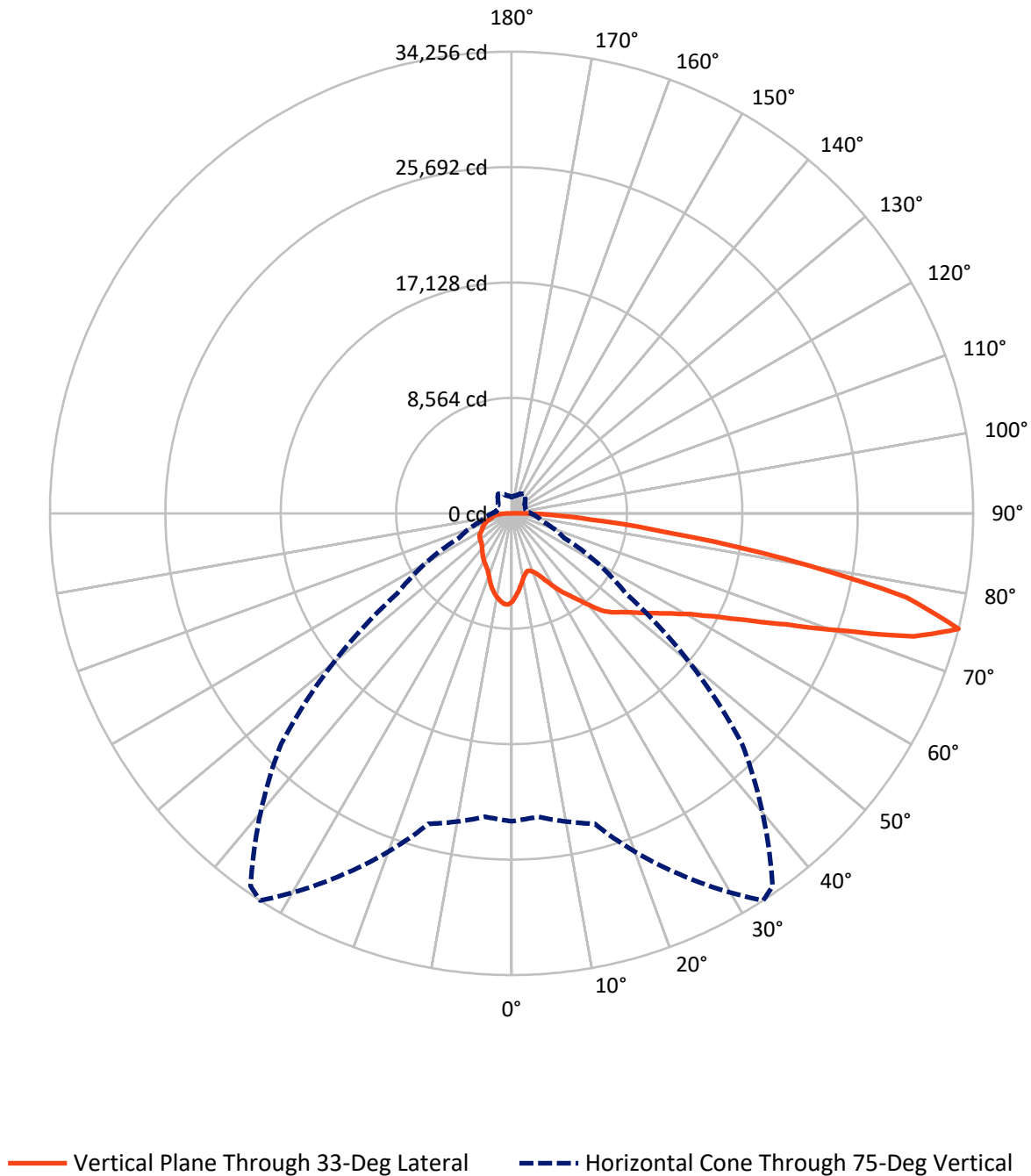
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	9001.8	0.0	9001.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	32920.2	0.0	32920.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	41922.0	0.0	41922.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.6	1.4
10°-20°	1605.0	3.8
20°-30°	2621.2	6.3
30°-40°	3903.6	9.3
40°-50°	5598.9	13.4
50°-60°	7686.4	18.3
60°-70°	9623.0	23.0
70°-80°	8705.5	20.8
80°-90°	1585.8	3.8
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°	41922.0	100.0
0°-180°	41922.0	100.0

Coefficient of Utilization



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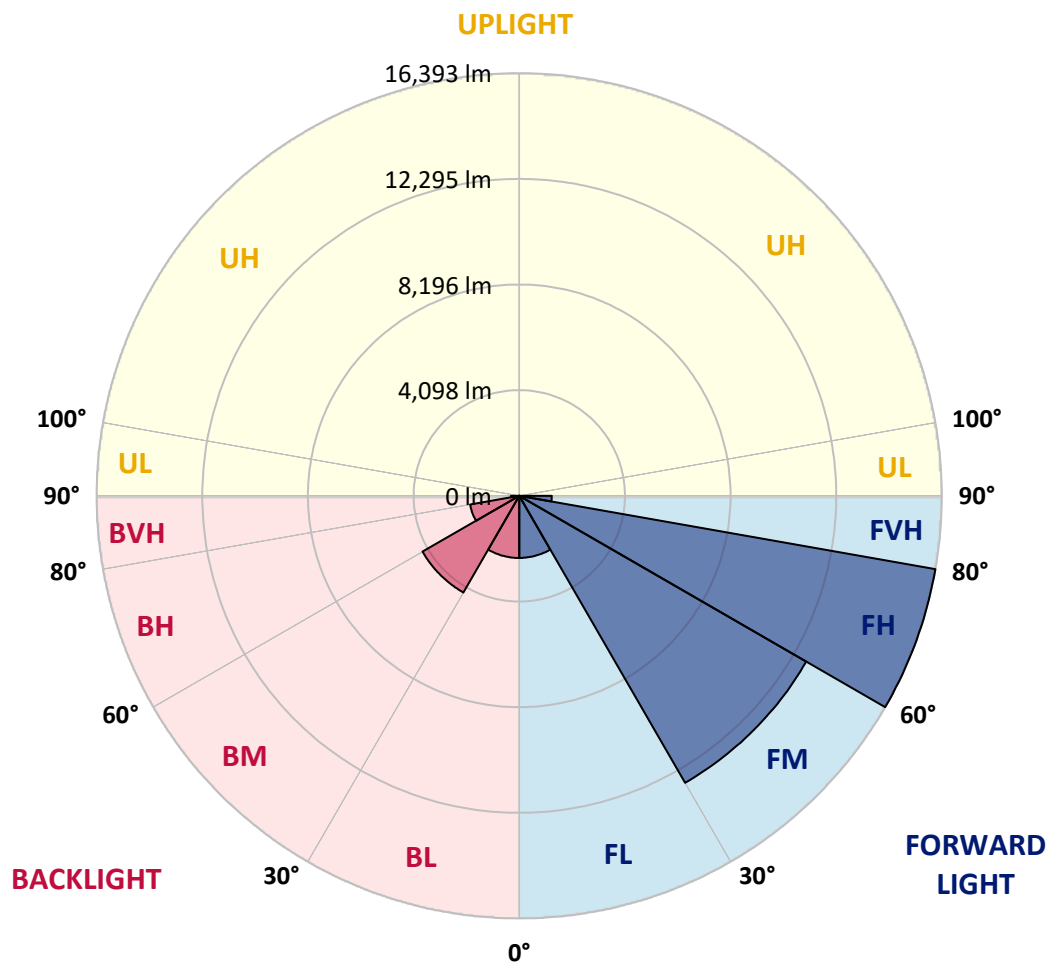
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2407.8	5.7			
FM	(30°-60°)	12856.6	30.7			
FH	(60°-80°)	16393.0	39.1			G5
FVH	(80°-90°)	1262.9	3.0			G5
BL	(0°-30°)	2411.1	5.8	B3/2500		
BM	(30°-60°)	4332.3	10.3	B3/5000		
BH	(60°-80°)	1935.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	322.8	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6
2.5°	6084.9	6061.7	6105.2	6111.0	6148.6	6163.1	6215.2	6296.3	6362.9	6439.7	6509.2
5°	5533.2	5517.3	5578.1	5621.5	5704.1	5738.8	5861.9	6034.2	6187.7	6361.5	6519.3
7.5°	5009.0	5000.3	5068.3	5166.8	5262.4	5310.2	5523.0	5773.6	6029.9	6310.8	6552.6
10°	4567.3	4564.4	4629.6	4726.6	4867.1	4920.6	5195.8	5525.9	5885.1	6271.7	6609.1
12.5°	4319.7	4329.8	4360.2	4441.3	4571.6	4625.2	4930.8	5318.9	5763.4	6258.7	6691.7
15°	4380.5	4396.4	4344.3	4341.4	4434.1	4476.1	4762.8	5171.2	5676.5	6280.4	6811.9
17.5°	4639.7	4642.6	4505.0	4418.1	4474.6	4496.3	4710.7	5087.2	5625.9	6329.6	6962.5
20°	5004.6	4997.4	4754.1	4609.3	4639.7	4645.5	4784.5	5088.6	5621.5	6415.1	7157.9
22.5°	5488.3	5434.7	5107.4	4910.5	4903.3	4894.6	4974.2	5195.8	5685.2	6554.1	7391.1
25°	6119.7	6069.0	5618.6	5349.3	5291.4	5269.6	5281.2	5424.6	5811.2	6703.2	7651.8
27.5°	6822.0	6733.7	6299.2	5918.4	5798.2	5767.8	5698.3	5747.5	5948.8	6846.6	7961.6
30°	7409.9	7362.1	6982.7	6530.9	6389.0	6345.6	6163.1	6109.5	6147.2	7042.1	8352.6
32.5°	7738.6	7706.8	7476.5	7111.6	6979.8	6919.0	6661.3	6554.1	6465.8	7350.5	8882.6
35°	8136.9	8116.6	7977.6	7712.6	7517.1	7453.4	7253.5	7142.0	6914.7	7774.8	9567.6
37.5°	8643.7	8622.0	8624.9	8410.6	8177.4	8118.0	7986.3	7869.0	7496.8	8332.4	10311.9
40°	9217.1	9175.1	9159.2	9149.1	9001.4	8968.1	8898.6	8739.3	8226.6	8998.5	11046.1
42.5°	10080.2	9931.1	9612.5	9732.7	9878.9	9861.5	9918.0	9689.2	9037.6	9786.2	11762.9
45°	10912.9	10668.1	10117.9	10143.9	10464.0	10561.0	10983.8	10821.6	9916.6	10649.3	12504.3
47.5°	11292.3	11106.9	10639.2	10640.6	10957.8	11159.0	12085.8	11970.0	10840.5	11629.7	13409.4
50°	11716.6	11531.2	11111.3	11269.1	11545.7	11760.0	13150.2	13090.8	11719.5	12702.7	14494.0
52.5°	12180.0	11865.7	11599.3	11881.6	12269.7	12518.8	14216.0	14053.8	12526.0	13783.0	15740.8
55°	12185.7	12100.3	12303.0	12510.1	13090.8	13396.4	15332.5	14903.8	13183.5	14844.5	16755.9
57.5°	12879.4	12740.4	13170.5	13266.0	14024.8	14369.5	16443.2	15643.8	13852.5	15658.3	17303.3
60°	13797.5	13678.7	14030.6	14282.6	15180.4	15640.9	17629.1	16404.1	14378.2	16272.3	17277.3
62.5°	15383.1	15248.5	15244.1	15597.5	16806.6	17342.4	18959.9	17149.8	14586.7	16393.9	16540.2
65°	17704.4	17490.1	17086.1	17254.1	19052.6	19587.0	20447.1	17690.0	14311.6	15742.3	14641.7
67.5°	19963.5	19956.2	19459.5	19804.2	22018.3	22447.0	22141.4	17743.5	13452.8	13473.1	11273.4
70°	22215.3	22244.2	22160.2	23359.3	26025.2	26471.2	23945.7	17023.8	11522.5	9729.8	6753.9
72.5°	23999.3	23992.1	24414.9	27506.6	31225.3	31125.4	25466.3	14843.0	8273.0	5252.3	3227.8
75°	22843.7	22591.8	23851.6	29560.0	34256.2	33768.2	24173.1	10353.9	4293.6	2390.8	1737.7
77.5°	14899.5	15138.4	16987.6	24419.3	29964.0	29370.3	17734.9	4830.9	2023.0	1568.3	1259.8
80°	5395.6	5647.6	7954.4	13832.2	20644.1	20547.1	8733.5	1985.3	1368.5	1184.5	918.1
82.5°	1856.5	1949.1	3138.0	6142.8	11655.7	12090.2	3285.7	1128.1	994.8	839.9	628.5
85°	728.4	834.1	1435.1	2955.6	5879.3	5922.7	1330.8	674.8	692.2	550.3	344.6
87.5°	276.6	336.0	686.4	1372.8	2684.8	2466.1	476.4	321.5	393.9	327.3	163.6
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°	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6	6552.6
2.5°	6562.8	6593.2	6656.9	6700.3	6746.7	6759.7	6765.5	6777.1	6788.7	6784.3	6785.8
5°	6603.3	6662.7	6765.5	6809.0	6829.2	6806.1	6761.2	6725.0	6698.9	6684.4	6680.1
7.5°	6669.9	6753.9	6864.0	6856.7	6810.4	6707.6	6591.7	6504.9	6432.5	6406.4	6391.9
10°	6758.3	6856.7	6933.5	6851.0	6716.3	6538.2	6364.4	6229.7	6121.1	6079.1	6071.9
12.5°	6871.2	6971.1	6985.6	6810.4	6587.4	6344.1	6108.1	5930.0	5767.8	5715.6	5704.1
15°	7017.5	7111.6	7021.8	6739.4	6428.1	6100.8	5795.3	5553.5	5382.6	5318.9	5295.7
17.5°	7171.0	7260.8	7029.1	6622.2	6219.6	5812.7	5428.9	5181.3	4985.8	4911.9	4903.3
20°	7354.9	7395.4	6998.7	6454.2	5932.9	5439.1	5035.0	4801.9	4697.6	4645.5	4639.7
22.5°	7582.2	7538.8	6929.1	6226.8	5569.4	5007.5	4678.8	4570.2	4544.1	4532.5	4536.9
25°	7822.6	7689.4	6826.3	5930.0	5110.3	4576.0	4418.1	4448.6	4483.3	4479.0	4479.0
27.5°	8087.6	7842.9	6668.5	5536.1	4602.1	4222.7	4241.5	4353.0	4405.1	4403.7	4402.2
30°	8427.9	8016.7	6467.2	5062.6	4127.1	3973.6	4088.0	4224.1	4295.1	4292.2	4293.6
32.5°	8846.4	8207.8	6193.5	4534.0	3783.9	3789.7	3921.4	4056.1	4138.7	4131.4	4132.9
35°	9335.9	8422.1	5822.8	4012.7	3556.5	3643.4	3747.7	3841.8	3920.0	3909.9	3899.7
37.5°	9868.8	8632.1	5330.4	3546.4	3371.2	3507.3	3594.2	3610.1	3646.3	3620.2	3601.4
40°	10375.6	8792.9	4696.2	3164.1	3184.4	3391.4	3447.9	3384.2	3319.0	3310.4	3284.3
42.5°	10817.3	8846.4	4054.7	2858.5	2987.4	3269.8	3304.6	3171.3	3054.0	2999.0	2975.8
45°	11283.6	8865.3	3456.6	2602.2	2797.7	3161.2	3198.8	3020.7	2855.6	2736.9	2697.8
47.5°	11893.2	9001.4	2991.8	2412.5	2652.9	3088.8	3142.4	2900.5	2686.2	2516.8	2480.6
50°	12691.1	9270.7	2613.8	2267.7	2558.8	3041.0	3101.8	2783.2	2547.2	2343.0	2306.8
52.5°	13577.4	9518.3	2308.3	2150.4	2467.6	2957.0	3049.7	2699.3	2416.9	2182.3	2143.2
55°	14197.2	9328.6	2062.1	2028.8	2348.8	2836.8	2977.3	2628.3	2230.1	2025.9	1991.1
57.5°	14315.9	8679.9	1875.3	1902.8	2205.5	2686.2	2865.8	2470.5	2128.7	1957.8	1921.6
60°	13991.5	7776.3	1736.3	1787.0	2052.0	2496.5	2657.3	2359.0	2031.7	1885.4	1855.0
62.5°	13176.2	6851.0	1633.5	1682.7	1908.6	2303.9	2526.9	2241.7	1933.2	1802.9	1772.5
65°	11529.8	5751.8	1535.0	1590.0	1775.4	2137.4	2409.6	2133.0	1836.2	1736.3	1707.3
67.5°	8703.1	4308.1	1442.3	1491.5	1656.6	1992.6	2282.2	2025.9	1742.1	1678.3	1643.6
70°	5124.8	2697.8	1336.6	1388.7	1532.1	1842.0	2146.1	1908.6	1624.8	1595.8	1550.9
72.5°	2385.0	1623.3	1216.4	1267.1	1375.7	1640.7	1970.9	1755.1	1485.7	1422.0	1361.2
75°	1423.5	1187.4	1074.5	1119.4	1196.1	1426.4	1750.8	1598.7	1354.0	1270.0	1206.3
77.5°	1064.4	908.0	918.1	965.9	1028.1	1248.3	1550.9	1475.6	1252.6	1187.4	1144.0
80°	766.0	689.3	748.7	800.8	866.0	1135.3	1485.7	1364.1	1132.4	1045.5	1005.0
82.5°	511.2	495.2	563.3	616.9	680.6	993.4	1396.0	1194.7	967.3	857.3	767.5
85°	282.4	298.3	379.4	402.6	457.6	699.4	1144.0	960.1	728.4	586.5	560.4
87.5°	117.3	137.6	204.2	196.9	243.3	417.1	753.0	579.2	463.4	346.1	269.3
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)