

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: P319062

Luminaire Tested: **GAN-SA8D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61751 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

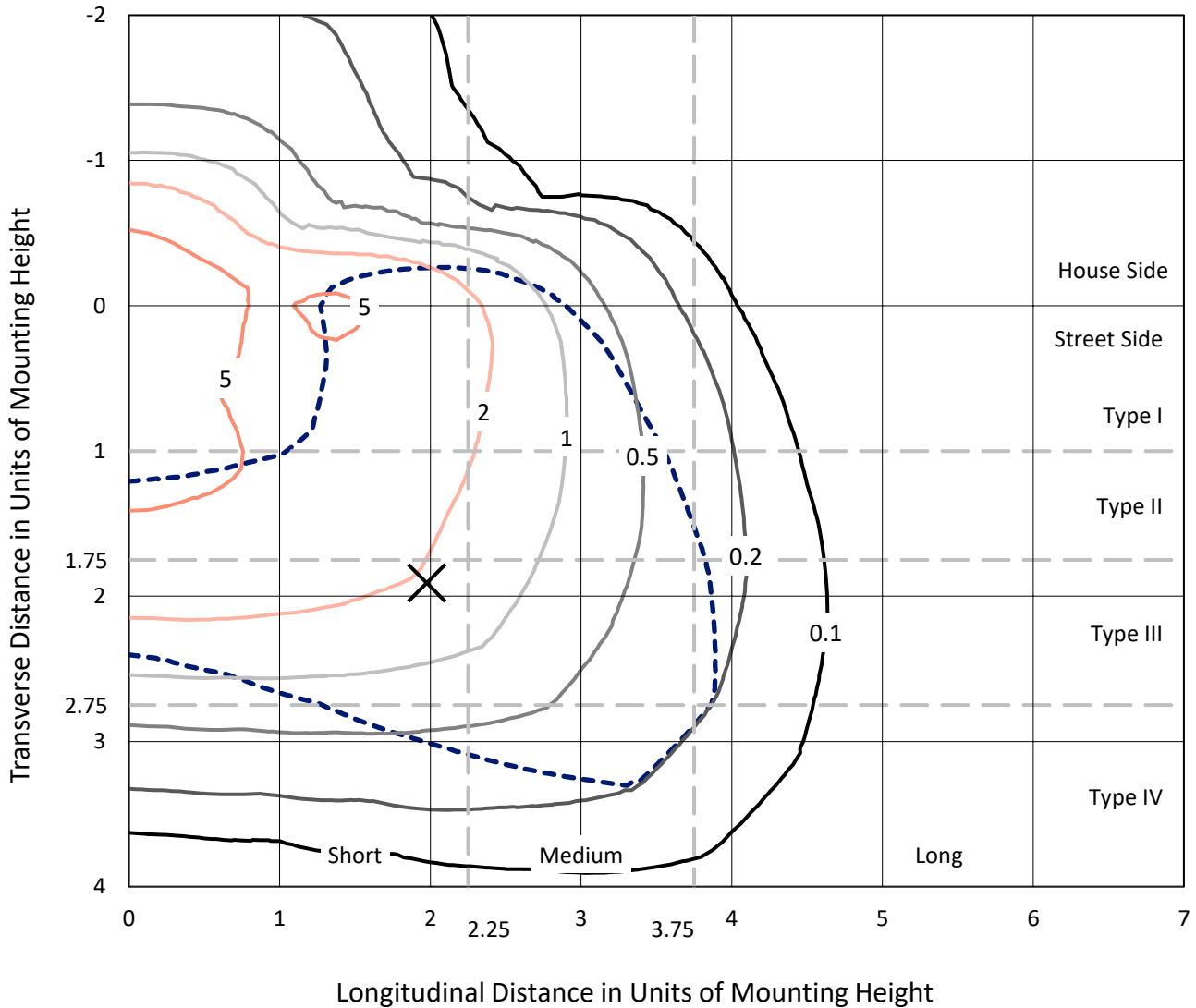
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

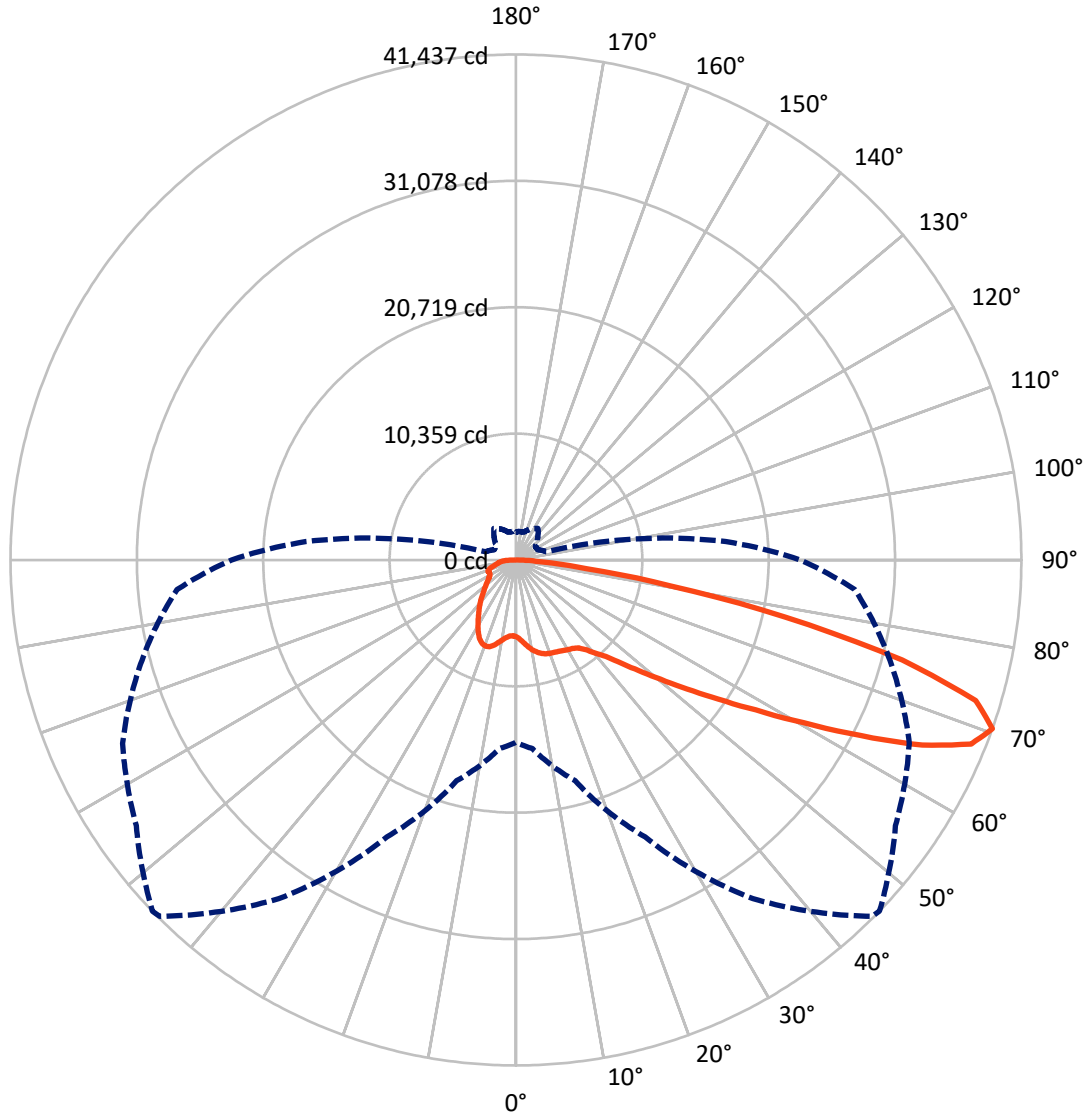
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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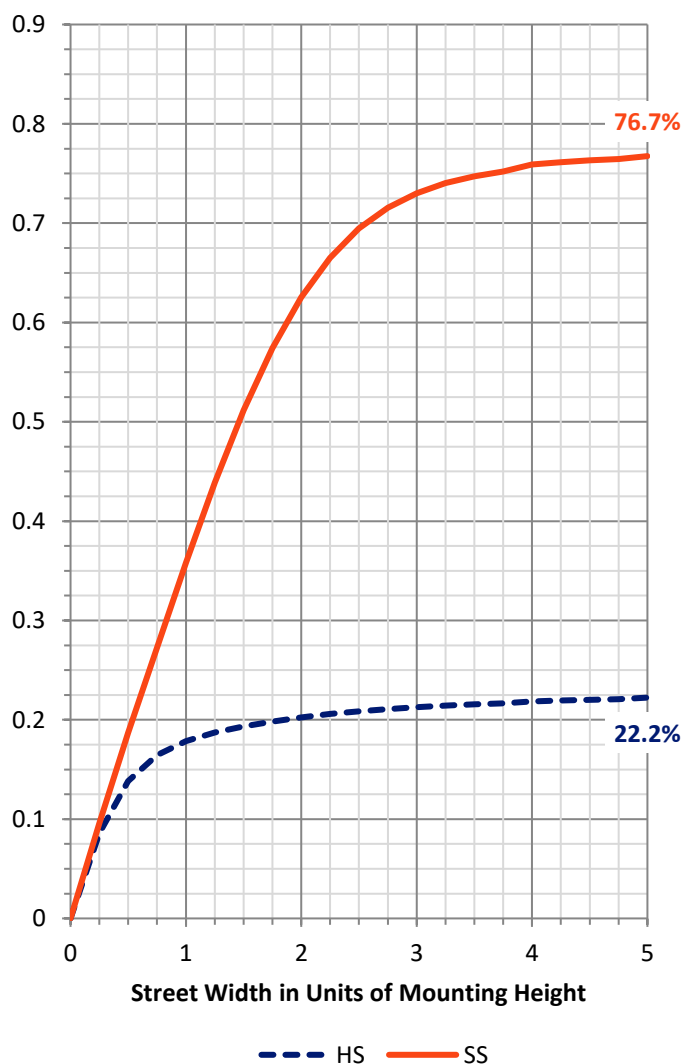
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14153.1	0.0	14153.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	47597.9	0.0	47597.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	61751.0	0.0	61751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.3	1.0
10°-20°	2136.8	3.5
20°-30°	3562.8	5.8
30°-40°	5055.8	8.2
40°-50°	7436.9	12.0
50°-60°	12594.3	20.4
60°-70°	17877.4	29.0
70°-80°	10860.7	17.6
80°-90°	1585.0	2.6
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°	61751.0	100.0
0°-180°	61751.0	100.0

Coefficient of Utilization



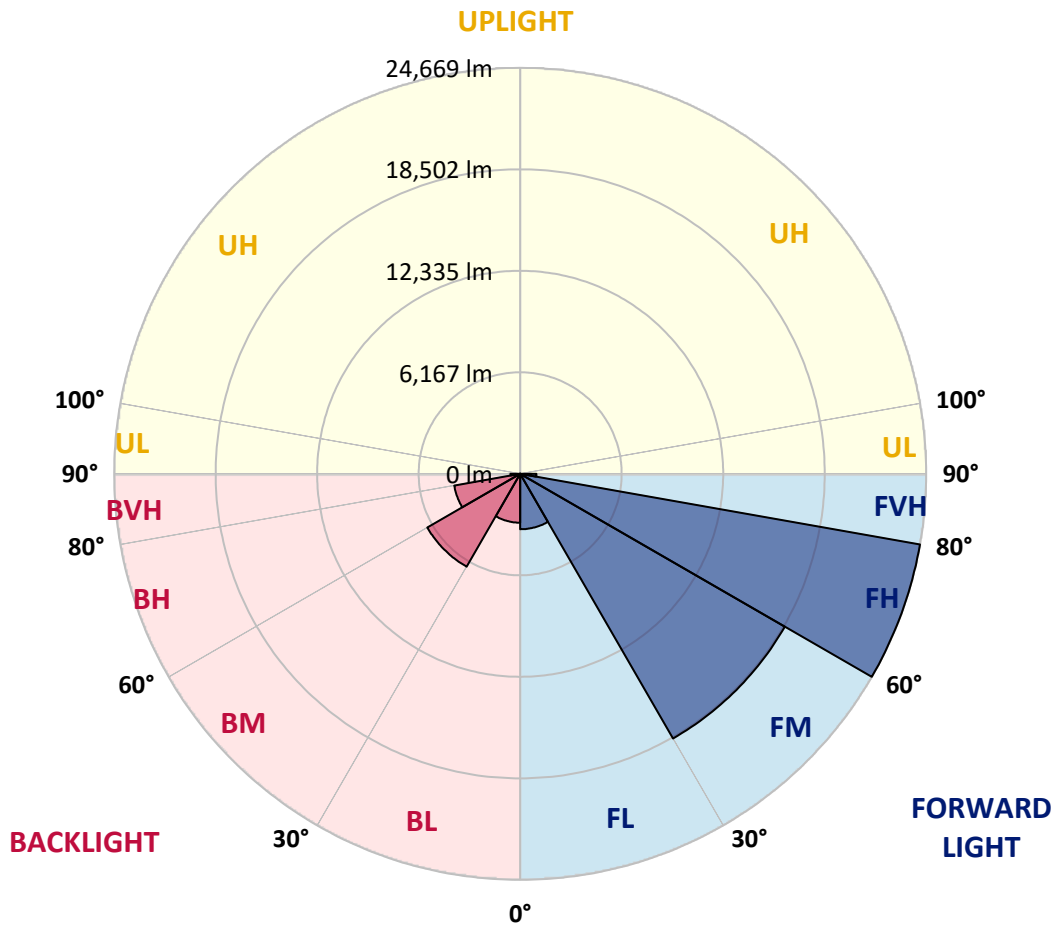
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3369.4	5.5			
FM (30°-60°)	18572.0	30.1			
FH (60°-80°)	24669.2	39.9			G5
FVH (80°-90°)	987.3	1.6			G5
BL (0°-30°)	2971.5	4.8	B4/5000		
BM (30°-60°)	6515.1	10.6	B4/8500		
BH (60°-80°)	4068.9	6.6	B4/5000		G4/5000
BVH (80°-90°)	597.7	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2
2.5°	6606.1	6610.3	6618.8	6597.6	6538.5	6521.6	6515.2	6453.9	6413.8	6354.6	6303.9
5°	7134.4	7138.6	7126.0	7066.8	6935.8	6838.6	6830.1	6690.6	6563.8	6428.6	6327.1
7.5°	7686.0	7692.3	7652.2	7540.2	7356.3	7187.2	7176.7	6986.5	6794.2	6589.2	6437.0
10°	8174.1	8148.8	8083.3	7926.9	7709.2	7502.1	7493.7	7295.0	7073.1	6825.9	6623.0
12.5°	8499.6	8478.5	8393.9	8203.7	7964.9	7774.7	7757.8	7574.0	7358.4	7087.9	6844.9
15°	8679.2	8694.0	8579.9	8364.3	8131.9	7971.3	7956.5	7825.5	7633.1	7360.5	7081.6
17.5°	8702.5	8715.1	8605.3	8391.8	8201.6	8091.7	8085.4	7998.7	7859.3	7597.2	7305.6
20°	8567.2	8575.7	8484.8	8309.4	8184.7	8150.9	8148.8	8110.7	8007.2	7774.7	7491.6
22.5°	8370.7	8377.0	8311.5	8184.7	8142.4	8195.3	8210.1	8195.3	8121.3	7903.6	7637.4
25°	8322.1	8317.8	8250.2	8121.3	8157.2	8269.2	8288.3	8294.6	8243.9	8053.7	7823.3
27.5°	8556.6	8541.9	8412.9	8205.8	8229.1	8364.3	8389.7	8451.0	8419.3	8252.3	8034.7
30°	9235.0	9209.7	8945.5	8527.1	8412.9	8482.7	8514.4	8611.6	8617.9	8478.5	8315.7
32.5°	10380.4	10348.7	9875.3	9127.2	8723.6	8603.1	8632.7	8778.5	8856.7	8749.0	8573.6
35°	11828.0	11792.1	11170.8	10147.9	9243.5	8833.5	8854.6	8970.9	9127.2	8975.1	8742.6
37.5°	13336.9	13250.2	12652.2	11348.3	10069.8	9325.9	9325.9	9340.7	9414.6	9097.6	8941.3
40°	14837.3	14750.7	14209.7	12760.0	11139.1	10101.5	10052.8	9725.3	9666.1	9393.5	9340.7
42.5°	16232.1	16206.7	15887.6	14355.5	12394.4	10864.3	10796.7	10240.9	10253.6	10084.5	10086.7
45°	17715.6	17715.6	17455.6	15965.8	13856.7	12090.0	12022.4	11204.6	11331.4	11253.2	11441.3
47.5°	18926.5	18964.5	18928.6	17643.7	15557.9	13647.5	13525.0	12540.2	12895.2	13163.6	13710.9
50°	20162.8	20221.9	20228.3	19484.4	17614.1	15498.8	15359.3	14313.2	15105.7	15874.9	16950.6
52.5°	21956.9	22090.1	21559.6	21320.8	20133.2	17696.6	17559.2	16593.4	17916.3	18996.2	20849.6
55°	23620.1	23503.8	23125.6	23273.5	22829.7	20198.7	20095.1	19247.7	21048.2	22451.4	24858.4
57.5°	24520.3	24511.9	24892.3	25526.2	25737.6	23284.1	23197.4	22373.2	24579.5	25634.0	28622.2
60°	25577.0	25591.8	26534.3	27973.4	28844.1	27126.0	27088.0	26462.4	28009.3	28605.3	31574.4
62.5°	25724.9	25991.2	27614.2	30090.9	31751.9	31614.6	31699.1	30145.9	31077.8	30976.4	33778.6
65°	24023.7	24374.5	27312.0	30731.2	34642.9	36523.7	36601.9	33850.4	33497.5	33003.0	34566.8
67.5°	20536.8	21056.7	24247.7	29338.6	35596.0	40152.2	40262.1	36722.4	35505.1	33689.8	32669.1
70°	14945.1	15522.0	18734.2	25057.1	33896.9	41312.4	41437.1	37992.4	35581.2	31735.0	27888.9
72.5°	9027.9	9480.1	12128.1	18446.8	28609.5	39199.1	39421.0	36382.1	32485.3	26880.9	20593.9
75°	3964.5	4260.4	5864.3	10629.8	20481.9	32432.4	32709.3	31141.2	26394.8	19535.1	12172.5
77.5°	1688.5	1773.0	2404.9	4617.5	11578.6	22161.9	22542.3	22753.6	17907.9	10629.8	5143.7
80°	1052.4	1086.2	1360.9	2090.0	5418.4	12447.2	12857.2	13387.6	8892.7	3907.4	1796.3
82.5°	640.3	678.4	904.5	1263.7	2821.2	5642.4	5839.0	6213.0	3451.0	1688.5	929.8
85°	384.6	412.1	553.7	798.8	1606.1	2218.9	2216.8	2451.4	1625.1	1086.2	490.3
87.5°	183.9	205.0	295.9	414.2	809.4	832.6	779.8	883.3	986.9	712.2	247.3
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°	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2	6291.2
2.5°	6287.0	6278.5	6251.1	6229.9	6225.7	6213.0	6202.5	6208.8	6217.3	6219.4	6219.4
5°	6284.9	6261.6	6225.7	6210.9	6229.9	6255.3	6287.0	6329.3	6354.6	6373.6	6386.3
7.5°	6386.3	6341.9	6301.8	6293.3	6331.4	6399.0	6470.8	6559.6	6620.9	6663.2	6671.6
10°	6555.4	6500.4	6460.3	6468.7	6536.4	6633.6	6735.0	6849.1	6942.1	6999.2	7003.4
12.5°	6749.8	6697.0	6658.9	6694.9	6806.9	6925.2	7030.9	7130.2	7214.7	7271.8	7271.8
15°	6973.8	6935.8	6891.4	6973.8	7126.0	7231.6	7276.0	7324.6	7371.1	7413.4	7404.9
17.5°	7189.4	7153.4	7130.2	7227.4	7385.9	7434.5	7404.9	7369.0	7369.0	7392.2	7396.5
20°	7375.3	7343.6	7358.4	7453.5	7535.9	7485.2	7375.3	7261.2	7214.7	7227.4	7240.1
22.5°	7538.1	7523.3	7567.6	7612.0	7552.8	7375.3	7172.5	7018.2	6961.1	6956.9	6961.1
25°	7728.2	7726.1	7781.1	7700.8	7438.7	7111.2	6838.6	6688.5	6656.8	6682.2	6724.4
27.5°	7964.9	7988.2	8015.7	7721.9	7206.3	6711.8	6434.9	6331.4	6363.1	6424.4	6464.5
30°	8267.1	8330.5	8271.4	7669.1	6872.4	6255.3	5991.1	5961.5	6048.2	6134.8	6177.1
32.5°	8560.9	8660.2	8516.5	7531.7	6441.3	5771.4	5566.4	5557.9	5663.6	5748.1	5807.3
35°	8797.6	8994.1	8700.4	7259.1	5942.5	5325.5	5175.4	5118.4	5156.4	5255.7	5323.3
37.5°	9106.1	9433.7	8827.1	6842.8	5401.5	4957.7	4782.3	4651.3	4617.5	4657.7	4691.5
40°	9670.3	10103.6	8886.3	6261.6	4873.2	4590.0	4412.5	4220.2	4087.1	3989.9	3992.0
42.5°	10591.7	10976.3	8848.3	5555.8	4385.0	4230.8	4030.0	3808.1	3592.6	3372.8	3355.9
45°	12087.9	12273.9	8734.2	4807.7	3956.0	3854.6	3666.5	3444.6	3157.2	2907.9	2884.6
47.5°	14482.3	14070.2	8556.6	4154.7	3577.8	3535.5	3362.2	3106.5	2802.2	2601.4	2584.5
50°	17747.3	16663.2	8470.0	3634.8	3243.9	3256.6	3115.0	2844.5	2557.1	2409.1	2392.2
52.5°	21652.6	19683.0	8637.0	3233.3	2975.5	3019.9	2914.2	2660.6	2419.7	2303.5	2286.6
55°	25703.8	22810.7	8816.6	2941.7	2721.9	2808.5	2772.6	2563.4	2345.7	2238.0	2223.2
57.5°	29171.6	25145.9	8457.3	2705.0	2495.8	2631.0	2662.7	2502.1	2307.7	2210.5	2193.6
60°	31354.7	26086.3	7514.8	2483.1	2316.1	2489.4	2599.3	2485.2	2322.5	2314.0	2301.4
62.5°	32390.2	26003.8	6101.0	2307.7	2204.1	2428.2	2645.8	2580.3	2491.6	2567.6	2574.0
65°	31925.2	24761.2	4543.5	2191.5	2123.8	2451.4	2785.3	2759.9	2540.2	2616.2	2626.8
67.5°	28865.2	21796.3	3364.3	2090.0	2035.1	2516.9	3038.9	2819.1	2445.1	2500.0	2466.2
70°	23330.6	17280.2	2595.1	1975.9	1944.2	2508.5	3153.0	2783.2	2341.5	2354.2	2263.3
72.5°	16088.4	11783.6	2111.2	1870.2	1813.2	2286.6	3072.7	2694.4	2254.9	2157.7	2037.2
75°	8749.0	6325.0	1794.2	1760.4	1582.8	2007.6	2924.8	2631.0	2176.7	2047.8	1980.1
77.5°	3442.5	2624.7	1557.5	1610.3	1384.2	1773.0	2759.9	2510.6	2068.9	1899.8	1866.0
80°	1405.3	1339.8	1291.2	1392.6	1189.8	1551.1	2561.3	2369.0	1940.0	1762.5	1694.8
82.5°	796.7	832.6	1003.8	1098.9	965.8	1428.6	2466.2	2254.9	1785.7	1578.6	1498.3
85°	407.9	488.2	699.5	788.3	710.1	1215.1	2271.8	1973.8	1432.8	1208.8	1215.1
87.5°	196.5	272.6	441.7	494.5	460.7	879.1	1697.0	1430.7	1115.8	883.3	855.9
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)