

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: McGRAW-EDISON

Report Number: P458510

Luminaire Tested: **GALN-SA9D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA 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: 55606 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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

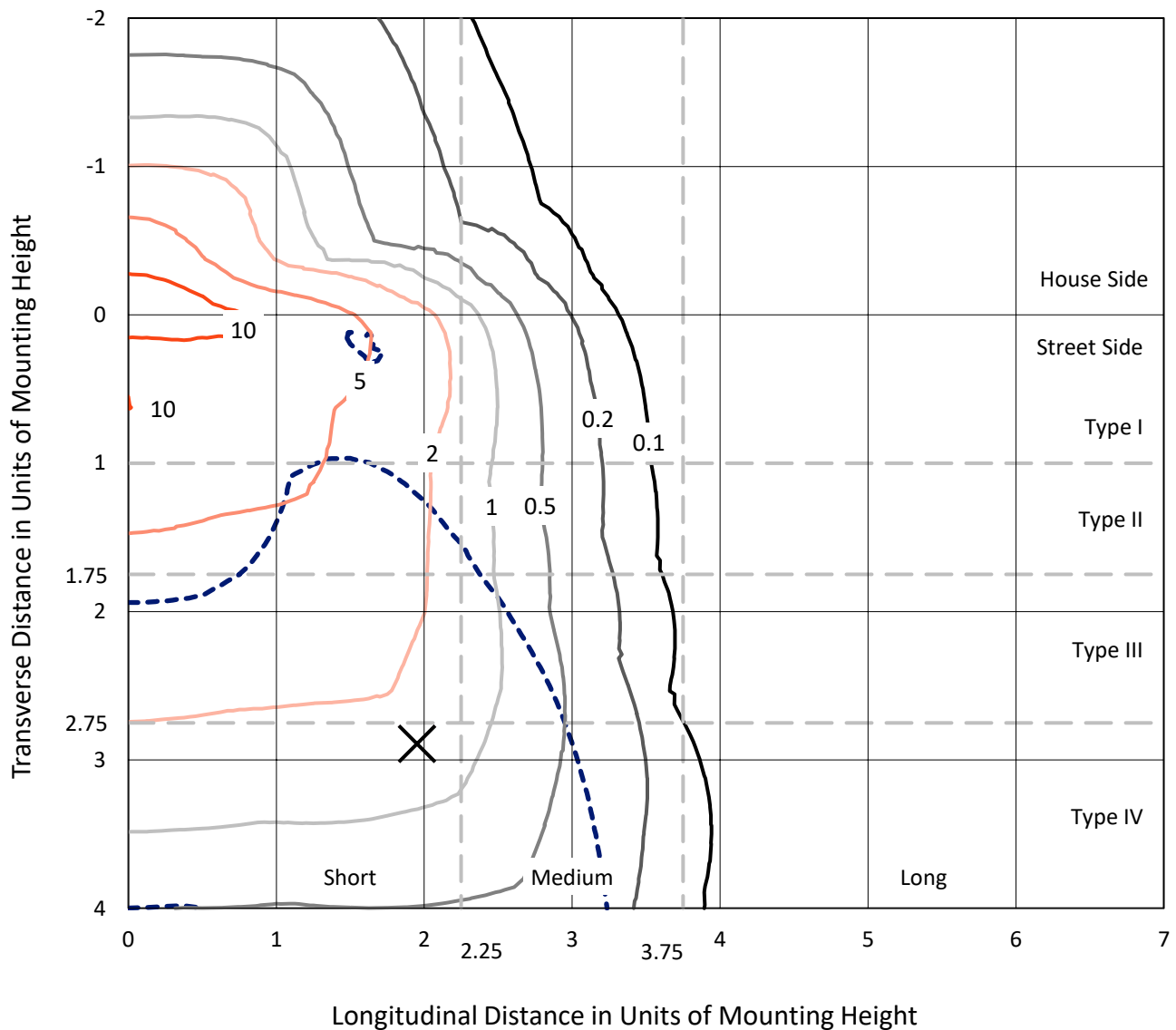


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

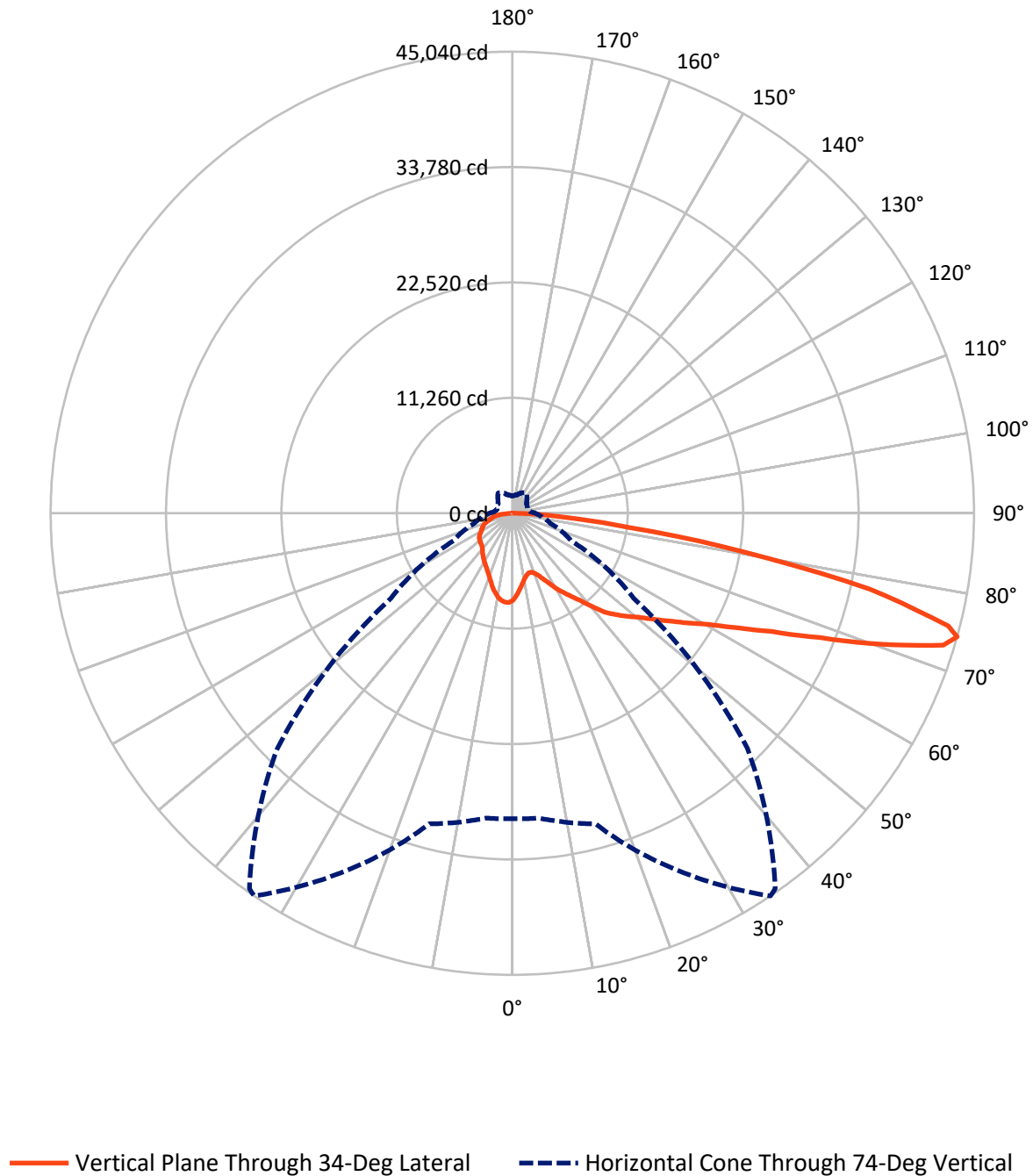


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11833.4	0.0	11833.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	43772.6	0.0	43772.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	55606.0	0.0	55606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.1	1.4
10°-20°	2113.7	3.8
20°-30°	3484.9	6.3
30°-40°	5219.9	9.4
40°-50°	7588.4	13.6
50°-60°	10599.1	19.1
60°-70°	13269.6	23.9
70°-80°	10972.9	19.7
80°-90°	1585.5	2.9
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°	55606.0	100.0
0°-180°	55606.0	100.0

Coefficient of Utilization



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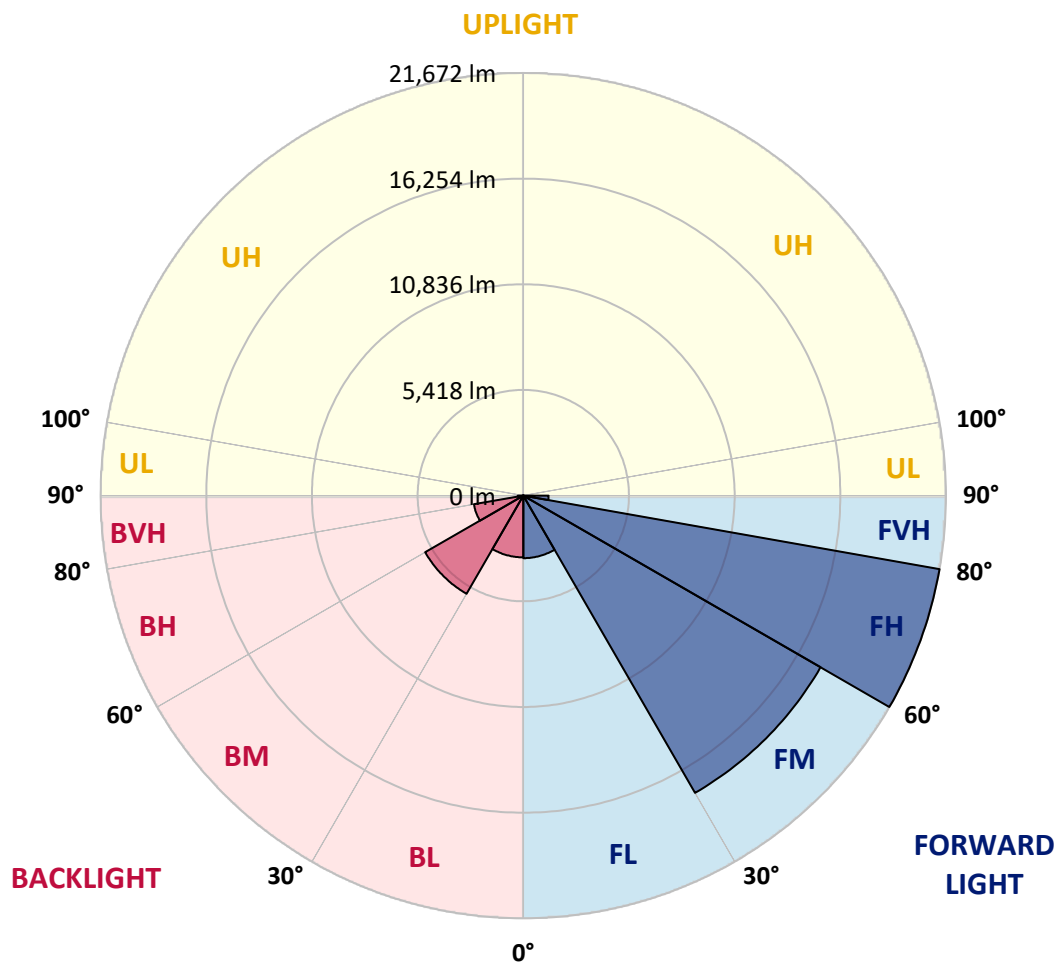
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3205.4	5.8			
FM	(30°-60°)	17596.0	31.6			
FH	(60°-80°)	21672.3	39.0			G5
FVH	(80°-90°)	1298.9	2.3			G5
BL	(0°-30°)	3165.2	5.7	B4/5000		
BM	(30°-60°)	5811.4	10.5	B4/8500		
BH	(60°-80°)	2570.1	4.6	B4/5000		G4/5000
BVH	(80°-90°)	286.6	0.5			G3/500
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°	34°	35°	45°	55°	65°	75°	85°
0°	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9
2.5°	7846.1	7886.2	7907.7	7984.7	8003.2	8027.9	8092.5	8178.8	8289.7	8388.3	8474.5
5°	7193.0	7254.6	7291.6	7359.4	7491.8	7504.2	7676.7	7873.8	8098.7	8308.2	8480.7
7.5°	6573.8	6641.6	6672.4	6795.6	6971.2	6999.0	7251.6	7562.7	7938.5	8255.8	8520.7
10°	6108.7	6142.6	6210.3	6302.8	6512.2	6530.7	6860.3	7276.2	7762.9	8231.2	8588.5
12.5°	5856.1	5874.6	5890.0	5988.5	6194.9	6222.7	6567.7	7039.0	7624.3	8249.7	8699.4
15°	5893.1	5899.2	5831.4	5849.9	6016.3	6056.3	6398.3	6881.9	7538.1	8295.9	8865.8
17.5°	6204.2	6182.6	6016.3	5930.0	6047.1	6065.6	6364.4	6820.3	7498.0	8382.1	9038.3
20°	6694.0	6663.2	6376.7	6185.7	6253.5	6268.9	6475.3	6866.5	7538.1	8523.8	9306.3
22.5°	7303.9	7291.6	6857.3	6626.2	6623.1	6623.1	6731.0	7032.8	7658.2	8717.9	9586.6
25°	8157.2	8092.5	7525.7	7226.9	7143.7	7137.6	7125.3	7307.0	7812.2	8924.3	9919.3
27.5°	9032.1	8921.2	8416.0	7957.0	7778.3	7756.8	7676.7	7695.2	8009.4	9158.4	10298.2
30°	9817.6	9746.8	9272.4	8764.1	8551.5	8502.3	8280.5	8178.8	8339.0	9580.4	10902.0
32.5°	10418.3	10375.2	10005.6	9543.5	9229.3	9220.0	8896.6	8813.4	8853.4	10091.8	11592.0
35°	10905.1	10920.5	10732.6	10332.1	9971.7	9919.3	9703.7	9598.9	9481.9	10831.1	12460.7
37.5°	11570.5	11604.4	11592.0	11247.0	10806.5	10818.8	10769.5	10597.0	10285.9	11656.7	13424.9
40°	12303.6	12328.3	12325.2	12192.7	11961.7	11974.0	11955.5	11758.4	11293.2	12707.2	14497.0
42.5°	13317.1	13200.1	12895.1	13027.6	13163.1	13221.6	13347.9	13160.0	12522.3	13828.5	15504.3
45°	14450.8	14229.0	13538.9	13600.5	14102.7	14213.6	14909.8	14651.0	13856.2	15116.2	16690.3
47.5°	15165.4	14946.7	14364.5	14352.2	15017.6	15125.4	16357.6	16262.1	15069.9	16505.5	18138.2
50°	15803.1	15772.3	15116.2	15273.3	15923.3	16083.4	17934.8	17845.5	16280.6	18144.3	19715.4
52.5°	16748.8	16499.3	15975.6	16299.1	17158.5	17368.0	19499.7	19237.9	17392.7	19592.2	21246.4
55°	17173.9	17115.4	17084.6	17364.9	18544.8	18695.7	21021.5	20420.8	18341.5	20818.2	22410.8
57.5°	18310.7	18202.8	18507.8	18698.8	20177.5	20408.5	22611.1	21656.1	19173.2	21791.7	22977.7
60°	19783.2	19724.6	20005.0	20350.0	22001.1	22352.3	24422.4	22709.7	19841.7	22281.5	22666.5
62.5°	21982.7	21976.5	21924.1	22663.4	24585.7	24909.2	26501.8	23735.5	19946.4	21914.9	21058.5
65°	25137.1	25026.2	24570.3	25377.4	27801.8	28180.7	28667.4	24308.5	19314.9	20032.7	17731.5
67.5°	28436.4	28430.2	28060.5	29107.9	32419.5	32810.7	31375.2	24182.1	17562.1	16228.2	12593.2
70°	31171.9	31039.4	31510.7	34301.7	38318.7	38771.5	33744.1	22694.3	13988.7	10717.2	7482.6
72.5°	31828.0	31834.2	32813.8	38306.4	43983.8	44054.6	34597.4	18393.8	9361.7	5911.5	3742.8
74°	29807.2	29859.6	31378.3	38506.6	45040.4	44720.0	32416.4	14456.9	6330.5	3859.9	2698.5
75°	27207.2	26877.6	29074.0	37172.7	43943.7	43598.7	29862.6	11601.3	4830.3	3083.6	2362.8
77.5°	14546.3	14882.0	18270.6	27740.2	35700.2	35302.9	20248.3	5563.4	2609.2	2147.1	1700.5
80°	5178.4	5711.3	8027.9	14515.5	22888.3	23011.5	9663.6	2550.7	1836.0	1583.4	1201.4
82.5°	2113.2	2171.8	3447.1	6441.4	11622.8	11733.7	3946.2	1515.6	1312.3	1090.5	717.8
85°	825.6	850.2	1524.9	2895.7	4959.7	5283.1	1364.7	800.9	807.1	625.3	366.6
87.5°	277.2	314.2	625.3	964.2	1685.0	1651.2	397.4	237.2	289.6	271.1	114.0
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°	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9	8489.9
2.5°	8517.7	8576.2	8616.2	8659.4	8699.4	8711.7	8702.5	8730.2	8733.3	8736.4	8739.5
5°	8566.9	8647.0	8724.1	8767.2	8785.7	8770.3	8717.9	8690.2	8665.5	8647.0	8653.2
7.5°	8634.7	8748.7	8819.6	8838.0	8788.7	8717.9	8588.5	8486.9	8422.2	8379.0	8376.0
10°	8739.5	8850.4	8908.9	8856.5	8721.0	8548.5	8345.2	8154.2	8009.4	7966.2	7963.2
12.5°	8871.9	8998.2	8995.1	8841.1	8603.9	8295.9	7966.2	7744.4	7547.3	7448.7	7488.8
15°	9044.4	9139.9	9050.6	8773.3	8397.5	7975.5	7568.9	7267.0	7045.2	6940.4	6946.6
17.5°	9244.7	9327.8	9090.6	8653.2	8108.0	7565.8	7094.5	6808.0	6632.4	6555.4	6549.2
20°	9494.2	9518.8	9090.6	8443.7	7735.2	7088.3	6638.5	6438.3	6339.7	6299.7	6312.0
22.5°	9762.2	9712.9	9041.4	8148.0	7245.4	6589.3	6287.4	6198.0	6148.7	6142.6	6148.7
25°	10064.1	9925.5	8939.7	7747.5	6734.0	6158.0	5982.4	5997.8	6007.0	6007.0	6028.6
27.5°	10433.7	10156.5	8770.3	7242.3	6136.4	5757.5	5708.2	5816.0	5865.3	5874.6	5890.0
30°	10920.5	10409.1	8489.9	6610.8	5628.1	5397.1	5483.3	5628.1	5683.6	5717.5	5711.3
32.5°	11499.6	10686.4	8111.0	5979.3	5218.4	5144.5	5249.2	5397.1	5458.7	5477.2	5452.5
35°	12180.4	11000.6	7612.0	5387.8	4861.1	4904.2	5027.4	5073.6	5129.1	5129.1	5141.4
37.5°	12913.6	11253.2	7002.0	4845.7	4583.8	4740.9	4830.3	4787.1	4762.5	4731.7	4747.1
40°	13659.1	11441.1	6210.3	4309.7	4306.6	4571.5	4596.1	4472.9	4374.4	4343.5	4328.1
42.5°	14309.1	11558.1	5495.7	3893.8	4044.7	4405.2	4423.6	4226.5	4069.4	3977.0	3946.2
45°	15076.1	11693.7	4796.4	3548.8	3801.4	4272.7	4318.9	4054.0	3822.9	3628.9	3579.6
47.5°	16126.6	12001.7	4245.0	3280.8	3625.8	4189.5	4254.2	3912.3	3607.3	3354.7	3314.6
50°	17312.6	12423.8	3816.8	3099.0	3490.2	4115.6	4195.7	3767.5	3407.1	3126.7	3095.9
52.5°	18400.0	12651.7	3447.1	2935.7	3357.8	3980.0	4118.7	3662.7	3209.9	2898.8	2871.1
55°	18994.5	12282.1	3083.6	2775.6	3176.0	3804.5	4010.8	3518.0	3018.9	2778.6	2738.6
57.5°	19074.6	11518.1	2754.0	2603.0	2985.0	3588.8	3810.6	3342.4	2895.7	2695.5	2661.6
60°	18455.4	10378.3	2498.3	2461.3	2791.0	3345.5	3585.7	3188.3	2769.4	2603.0	2569.2
62.5°	16915.2	9139.9	2319.6	2332.0	2593.8	3089.8	3419.4	3040.5	2649.3	2501.4	2470.6
65°	14265.9	7544.2	2147.1	2199.5	2418.2	2889.5	3268.4	2917.3	2529.1	2424.4	2396.7
67.5°	9910.1	5446.4	2005.4	2060.9	2251.9	2686.2	3092.9	2784.8	2393.6	2338.1	2295.0
70°	5486.4	3351.6	1839.1	1903.8	2079.4	2458.3	2895.7	2584.6	2196.4	2171.8	2110.2
72.5°	2883.4	2134.8	1651.2	1722.0	1845.2	2165.6	2593.8	2365.8	2002.3	1897.6	1817.5
74°	2251.9	1749.7	1524.9	1598.8	1682.0	1993.1	2415.1	2208.7	1863.7	1740.5	1678.9
75°	1962.3	1558.7	1417.0	1512.5	1586.5	1876.0	2276.5	2097.8	1786.7	1669.6	1614.2
77.5°	1386.2	1167.5	1158.3	1272.3	1312.3	1645.0	2051.6	1909.9	1592.6	1469.4	1417.0
80°	973.4	874.9	918.0	988.8	1044.3	1454.0	1903.8	1651.2	1306.1	1161.4	1142.9
82.5°	634.6	573.0	656.2	720.8	739.3	1072.0	1537.2	1253.8	951.9	773.2	717.8
85°	292.7	286.5	375.8	366.6	363.5	523.7	911.8	733.2	548.3	409.7	385.1
87.5°	73.9	70.9	92.4	77.0	92.4	80.1	83.2	21.6	3.1	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)