

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: P457578

Luminaire Tested: **GALN-SA8D-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49226 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 493
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

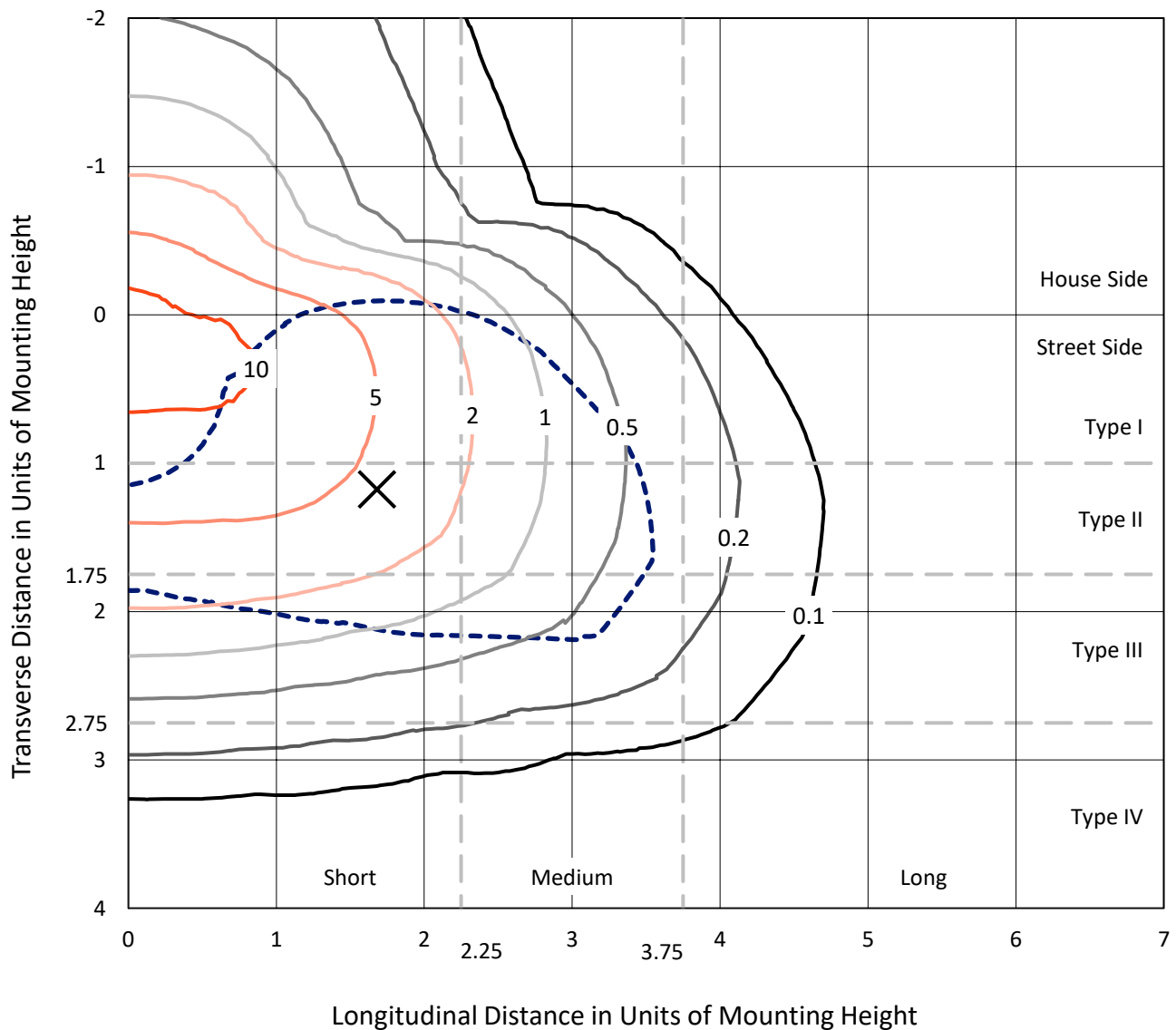


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

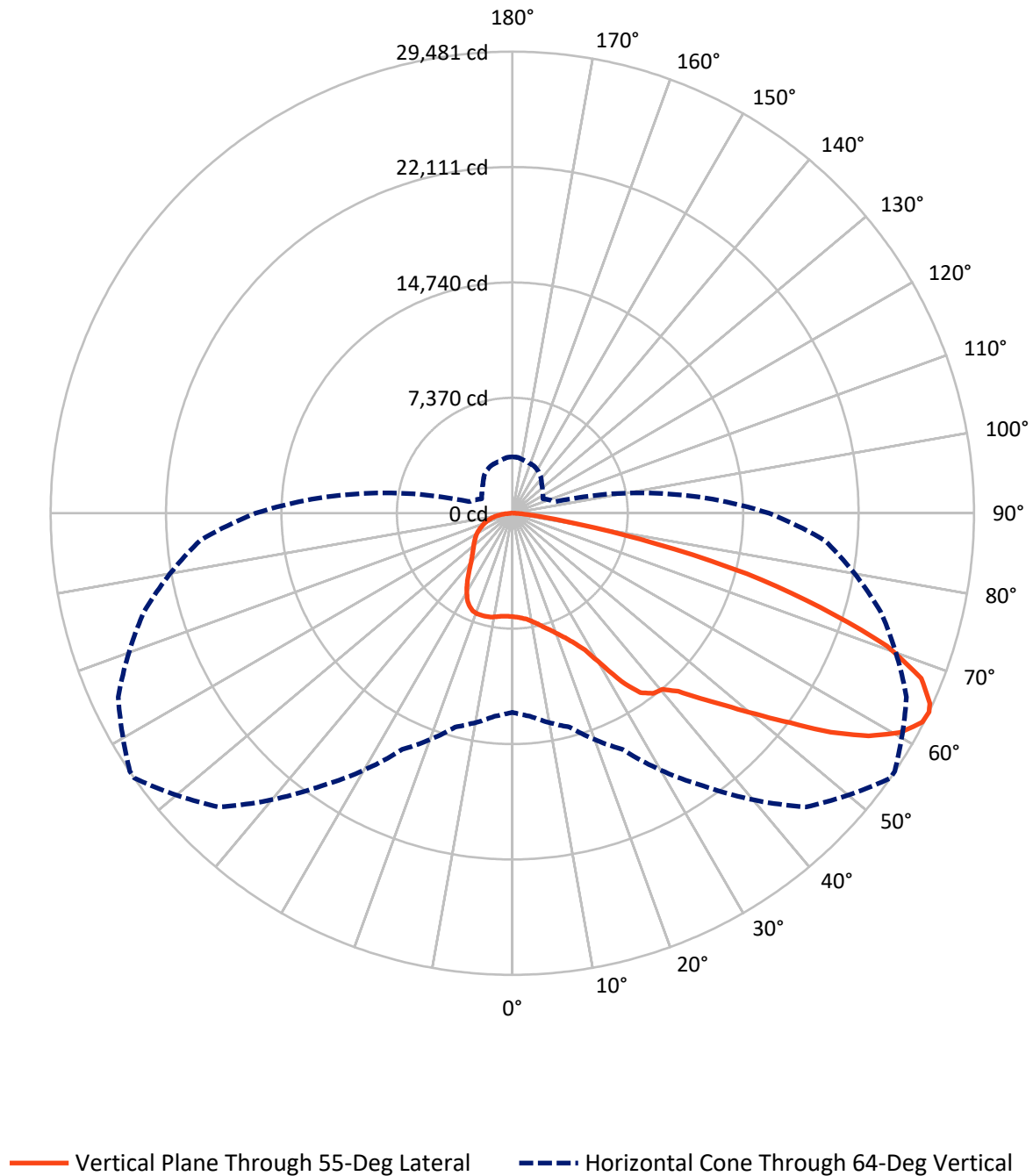


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11958.0	0.0	11958.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	37268.0	0.0	37268.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	49226.0	0.0	49226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	1.3
10°-20°	2027.1	4.1
20°-30°	3608.9	7.3
30°-40°	5552.6	11.3
40°-50°	7871.3	16.0
50°-60°	11393.5	23.1
60°-70°	11791.0	24.0
70°-80°	5521.8	11.2
80°-90°	817.4	1.7
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°	49226.0	100.0
0°-180°	49226.0	100.0

Coefficient of Utilization



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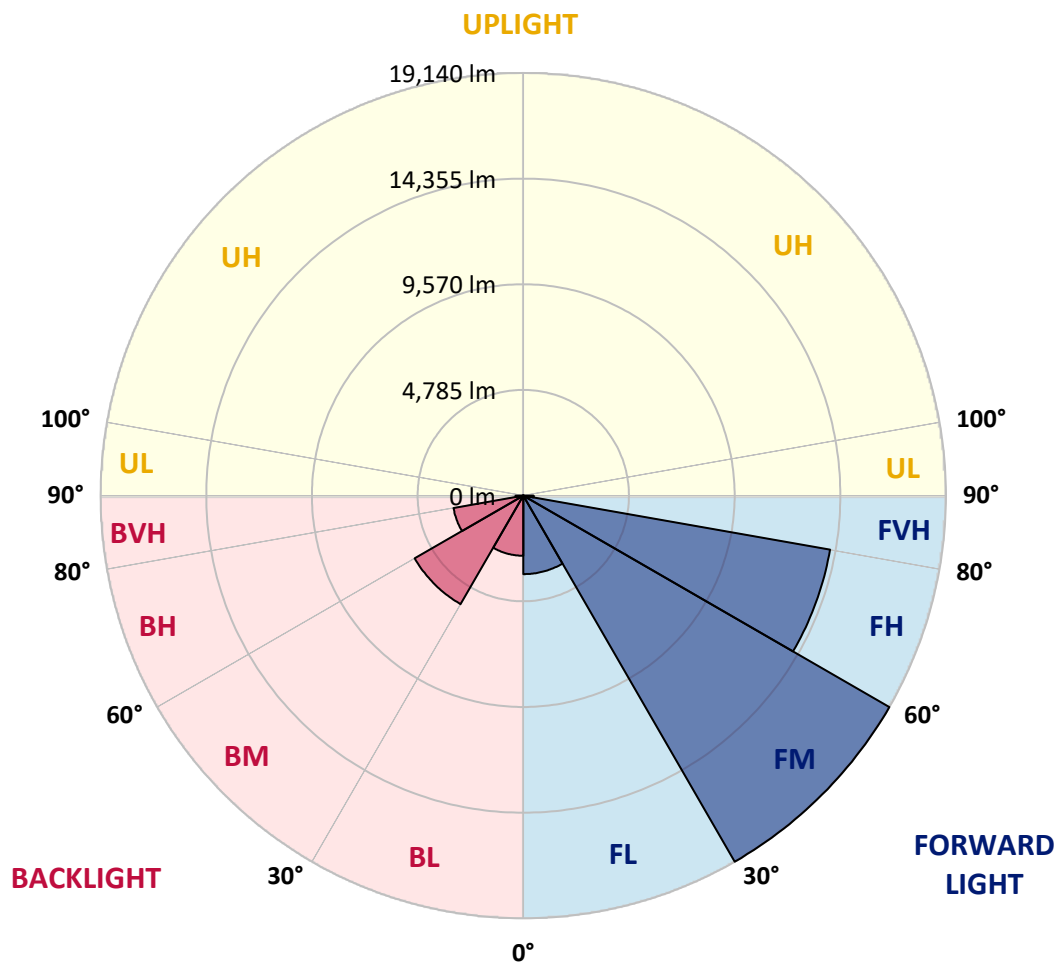
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3554.9	7.2			
FM	(30°-60°)	19140.4	38.9			
FH	(60°-80°)	14104.7	28.7			G5
FVH	(80°-90°)	468.0	1.0			G3/500
BL	(0°-30°)	2723.6	5.5	B4/5000		
BM	(30°-60°)	5676.9	11.5	B4/8500		
BH	(60°-80°)	3208.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	349.4	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6
2.5°	6678.7	6676.0	6684.2	6676.0	6681.5	6662.3	6654.0	6659.5	6651.3	6637.6	6612.9
5°	6761.0	6758.3	6761.0	6750.1	6755.6	6744.6	6725.4	6730.9	6717.1	6687.0	6651.3
7.5°	6901.0	6890.0	6890.0	6887.3	6876.3	6859.8	6846.1	6840.6	6826.9	6788.5	6733.6
10°	7082.1	7082.1	7084.8	7062.9	7076.6	7046.4	7032.7	7030.0	6983.3	6933.9	6857.1
12.5°	7320.8	7334.5	7326.3	7315.3	7309.8	7298.9	7252.2	7263.2	7211.1	7126.0	7032.7
15°	7617.2	7639.1	7625.4	7619.9	7606.2	7565.0	7545.8	7537.6	7469.0	7345.5	7222.0
17.5°	8009.5	7982.1	7971.1	7957.4	7899.8	7869.6	7836.7	7831.2	7770.8	7625.4	7433.3
20°	8352.5	8390.9	8369.0	8355.3	8297.6	8240.0	8215.3	8207.1	8155.0	7995.8	7688.5
22.5°	8761.4	8769.6	8777.8	8744.9	8717.5	8673.6	8629.7	8615.9	8596.7	8432.1	8056.2
25°	9197.7	9230.6	9203.1	9170.2	9137.3	9134.5	9175.7	9170.2	9162.0	9002.8	8544.6
27.5°	9908.3	9938.5	9946.8	9911.1	9784.9	9795.8	9889.1	9919.3	10045.5	9782.1	9173.0
30°	10309.0	10339.1	10407.7	10542.2	10742.5	10918.1	11143.1	11211.7	11332.4	10835.8	9919.3
32.5°	10555.9	10566.9	10690.4	10940.1	11541.0	12196.8	12808.7	12833.4	12910.2	12213.2	10602.6
35°	10945.5	10953.8	11052.6	11326.9	12032.1	13124.2	14070.9	14101.1	14038.0	12641.3	10920.8
37.5°	11425.7	11447.7	11510.8	11738.5	12580.9	13900.8	14595.0	14573.0	14013.3	12981.5	11483.4
40°	12125.4	12125.4	12051.3	12358.7	13159.9	14345.3	14778.8	14740.4	14592.2	13966.6	12339.5
42.5°	12742.8	12731.8	12907.5	13116.0	13884.3	15031.3	15549.9	15613.0	15857.2	15204.1	13313.6
45°	13546.8	13596.2	13695.0	14073.6	15116.3	16202.9	16872.4	16932.8	17278.5	16661.2	14452.3
47.5°	14359.0	14375.5	14685.5	15190.4	16641.9	17791.7	18340.4	18439.2	18754.8	18365.1	15678.8
50°	14935.2	15091.6	15588.3	16384.0	18214.2	19728.9	20156.9	20274.9	20831.9	20220.0	17108.4
52.5°	15544.4	15698.0	16304.4	17517.3	20019.7	21710.0	22236.8	22316.4	22895.4	22096.9	18570.9
55°	16065.7	16208.4	16897.1	18521.5	21457.5	23732.3	24687.2	24593.9	24871.0	23542.9	19698.7
57.5°	16150.8	16266.0	17133.1	19163.6	22538.7	25466.4	26835.7	26890.5	26569.5	24624.0	20628.9
60°	15492.2	15728.2	16724.3	19095.0	23024.3	26673.8	28438.1	28476.5	27565.5	25178.3	20999.3
62.5°	14326.1	14301.4	15506.0	17992.0	22343.8	26948.2	29382.0	29340.9	27955.2	24912.2	20639.9
64°	12715.4	13011.7	14136.7	16636.5	21246.3	26525.6	29480.8	29458.8	27768.6	24357.9	20028.0
65°	11733.1	11716.6	12827.9	15527.9	20154.2	25889.0	29305.2	29275.0	27378.9	23861.2	19553.3
67.5°	8470.5	8508.9	9606.5	11982.7	16384.0	23400.2	28161.0	28048.5	25842.3	22214.9	17747.7
70°	5131.2	5153.1	6014.7	7949.2	11760.5	18916.7	25384.1	25389.6	23490.8	19756.3	15105.3
72.5°	2702.8	2760.4	3106.1	4513.8	7142.5	13272.4	20593.2	21081.6	20167.9	16861.5	11933.4
75°	1503.7	1511.9	1756.1	2225.3	3643.9	7427.8	15478.5	15618.5	15966.9	13571.5	8824.5
77.5°	1147.0	1163.4	1240.3	1437.8	1983.9	3443.6	9367.8	10070.2	11252.9	9568.1	5035.1
80°	930.2	946.7	1012.5	1130.5	1319.8	1632.6	4351.9	4730.5	6022.9	4247.6	1964.7
82.5°	724.4	713.4	798.5	875.3	960.4	965.9	1786.3	1975.6	2453.1	1827.5	850.6
85°	537.8	537.8	606.4	589.9	620.1	565.2	787.5	869.8	982.3	776.5	395.1
87.5°	214.0	236.0	397.9	356.7	277.1	222.3	290.9	307.3	340.2	304.6	164.6
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°	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6	6604.6
2.5°	6615.6	6623.9	6604.6	6590.9	6585.4	6577.2	6569.0	6571.7	6582.7	6593.7	6590.9
5°	6648.5	6651.3	6618.4	6601.9	6590.9	6579.9	6579.9	6588.2	6610.1	6626.6	6626.6
7.5°	6730.9	6730.9	6684.2	6654.0	6637.6	6618.4	6612.9	6615.6	6632.1	6654.0	6656.8
10°	6859.8	6848.9	6788.5	6741.8	6711.7	6665.0	6623.9	6601.9	6610.1	6623.9	6623.9
12.5°	7016.2	6986.0	6909.2	6846.1	6772.0	6684.2	6599.2	6555.3	6552.5	6566.2	6560.7
15°	7183.6	7150.7	7043.7	6928.4	6799.5	6670.5	6569.0	6505.9	6456.5	6442.8	6472.9
17.5°	7378.4	7309.8	7161.7	7002.5	6810.4	6643.1	6483.9	6354.9	6267.1	6242.4	6250.7
20°	7614.4	7523.9	7323.6	7073.9	6802.2	6544.3	6297.3	6124.5	5981.8	5937.9	5943.4
22.5°	7940.9	7784.5	7490.9	7109.5	6733.6	6357.7	6014.7	5789.7	5616.8	5548.2	5589.4
25°	8311.4	8141.2	7650.1	7101.3	6555.3	6058.6	5679.9	5386.3	5229.9	5128.4	5150.4
27.5°	8821.7	8519.9	7820.2	7027.2	6300.1	5693.7	5254.6	4977.5	4834.8	4782.7	4807.4
30°	9474.8	9011.1	8004.0	6826.9	5896.7	5232.7	4826.6	4645.5	4560.4	4494.6	4516.5
32.5°	9946.8	9356.8	8045.2	6489.4	5460.4	4812.9	4535.7	4401.3	4308.0	4244.9	4258.6
35°	10284.3	9650.4	8026.0	6075.1	5004.9	4467.1	4305.2	4195.5	4044.6	3907.4	3882.7
37.5°	10737.0	10018.1	7886.1	5622.3	4554.9	4233.9	4118.6	3915.6	3698.8	3515.0	3506.7
40°	11431.2	10448.9	7587.0	5090.0	4170.8	4061.0	3921.1	3657.7	3424.4	3276.3	3265.3
42.5°	12147.4	10846.8	7180.9	4530.2	3855.2	3879.9	3709.8	3449.1	3306.4	3210.4	3199.4
45°	13022.7	11277.6	6741.8	4044.6	3622.0	3709.8	3526.0	3375.0	3290.0	3226.9	3210.4
47.5°	13969.4	11719.3	6247.9	3608.3	3424.4	3553.4	3449.1	3380.5	3333.9	3290.0	3270.8
50°	14990.1	12213.2	5784.2	3257.0	3246.1	3391.5	3440.9	3416.2	3388.8	3375.0	3358.6
52.5°	16109.6	12718.1	5394.6	3010.1	3089.7	3276.3	3443.6	3462.8	3462.8	3454.6	3443.6
55°	16866.9	13069.3	4999.4	2809.8	2930.5	3183.0	3438.1	3512.2	3539.7	3528.7	3517.7
57.5°	17426.7	13261.4	4502.8	2636.9	2796.1	3092.4	3408.0	3517.7	3545.2	3558.9	3553.4
60°	17542.0	13083.1	3852.5	2455.8	2650.6	2960.7	3298.2	3435.4	3471.1	3556.1	3564.4
62.5°	17023.4	12534.3	3204.9	2277.5	2472.3	2760.4	3150.0	3342.1	3413.5	3545.2	3558.9
64°	16386.8	11919.6	2845.5	2165.0	2357.0	2647.9	3075.9	3317.4	3410.7	3586.3	3597.3
65°	15920.3	11472.4	2620.5	2093.6	2283.0	2573.8	3034.8	3325.6	3435.4	3649.4	3665.9
67.5°	14202.6	9933.0	2167.7	1926.2	2107.3	2447.6	3043.0	3394.2	3429.9	3674.1	3671.4
70°	11752.3	7908.0	1816.5	1772.6	1937.2	2346.1	3010.1	3284.5	3287.2	3449.1	3410.7
72.5°	8799.8	5844.6	1575.0	1613.4	1747.9	2104.6	2842.7	3136.3	3089.7	3111.6	3073.2
75°	6044.9	3866.2	1355.5	1443.3	1550.3	1860.4	2606.7	2848.2	2774.1	2746.7	2719.2
77.5°	3226.9	2137.5	1127.8	1275.9	1347.3	1607.9	2274.7	2508.0	2431.1	2324.1	2288.4
80°	1306.1	1007.0	908.2	1056.4	1097.6	1295.1	1893.3	2038.7	1981.1	1794.5	1734.2
82.5°	655.8	603.7	713.4	831.4	834.2	924.7	1407.6	1544.8	1415.9	1188.1	1136.0
85°	343.0	354.0	491.2	584.5	515.9	499.4	845.1	935.7	858.9	746.3	672.3
87.5°	123.5	142.7	257.9	255.2	181.1	96.0	186.6	90.5	49.4	30.2	38.4
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)