

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: P457810

Luminaire Tested: **GALN-SA9A-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457810
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-SA9A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32669 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 274
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

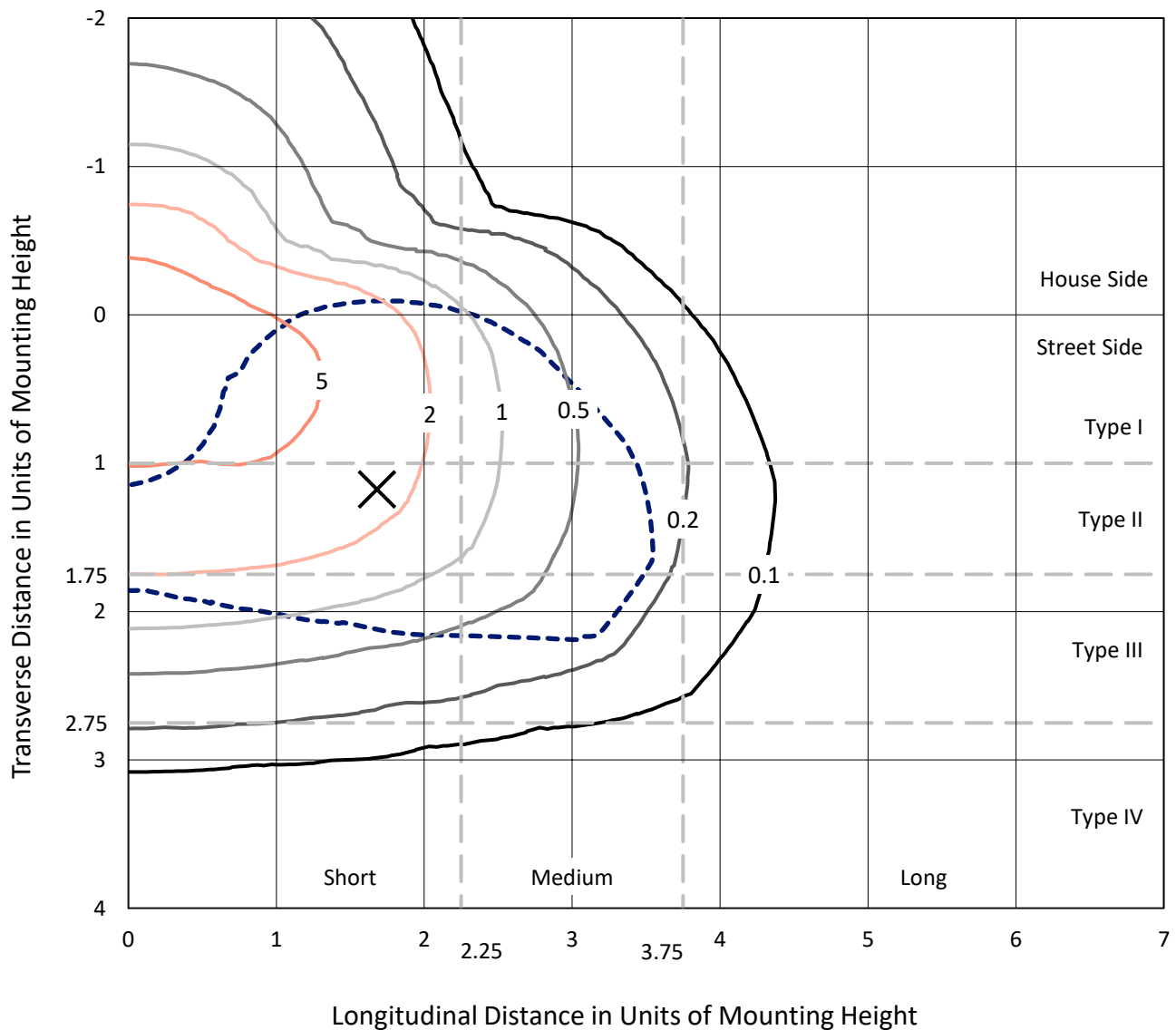


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

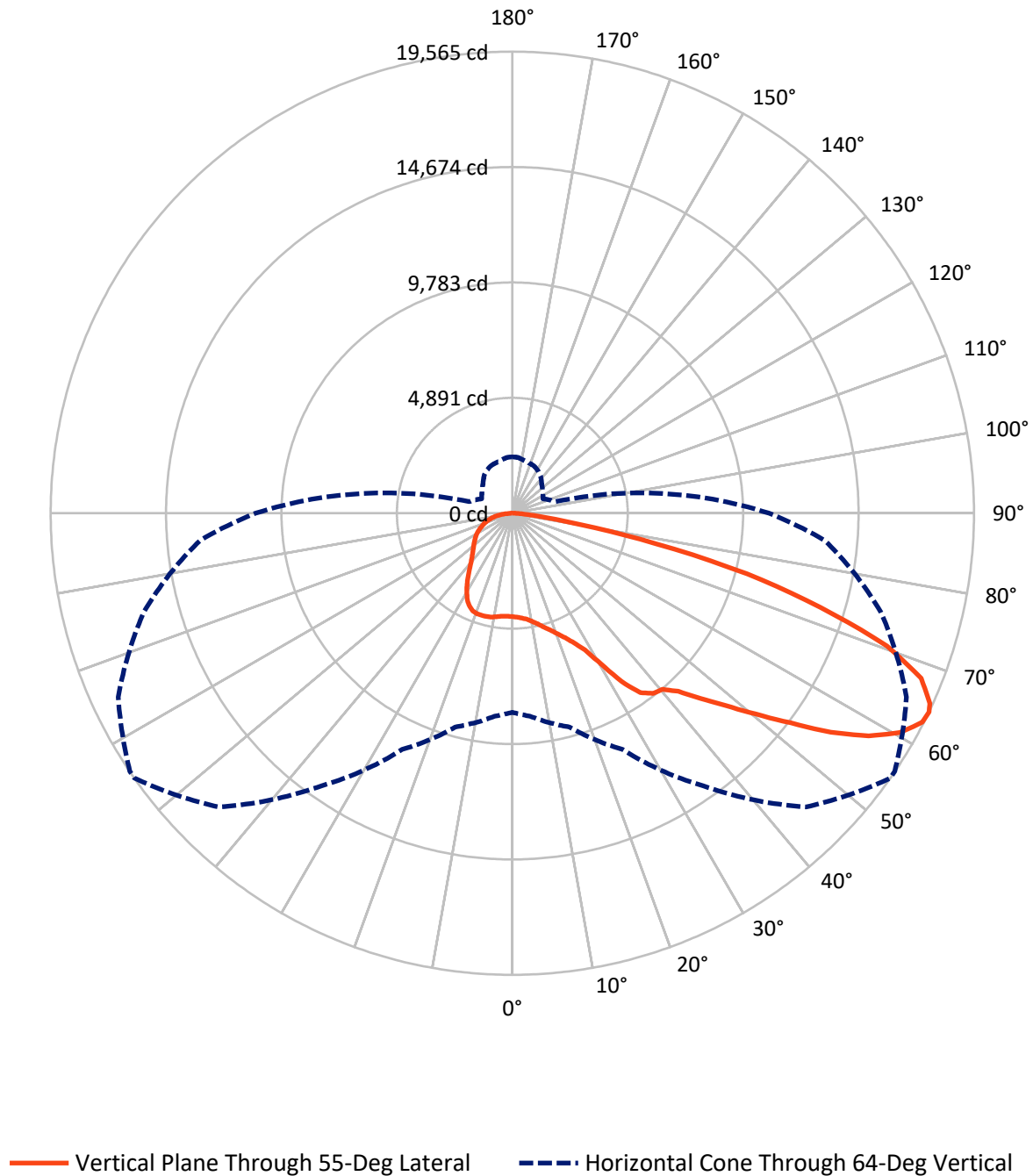


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7935.9	0.0	7935.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24733.1	0.0	24733.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	32669.0	0.0	32669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.4	1.3
10°-20°	1345.3	4.1
20°-30°	2395.0	7.3
30°-40°	3685.0	11.3
40°-50°	5223.8	16.0
50°-60°	7561.3	23.1
60°-70°	7825.2	24.0
70°-80°	3664.5	11.2
80°-90°	542.5	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°	32669.0	100.0
0°-180°	32669.0	100.0

Coefficient of Utilization



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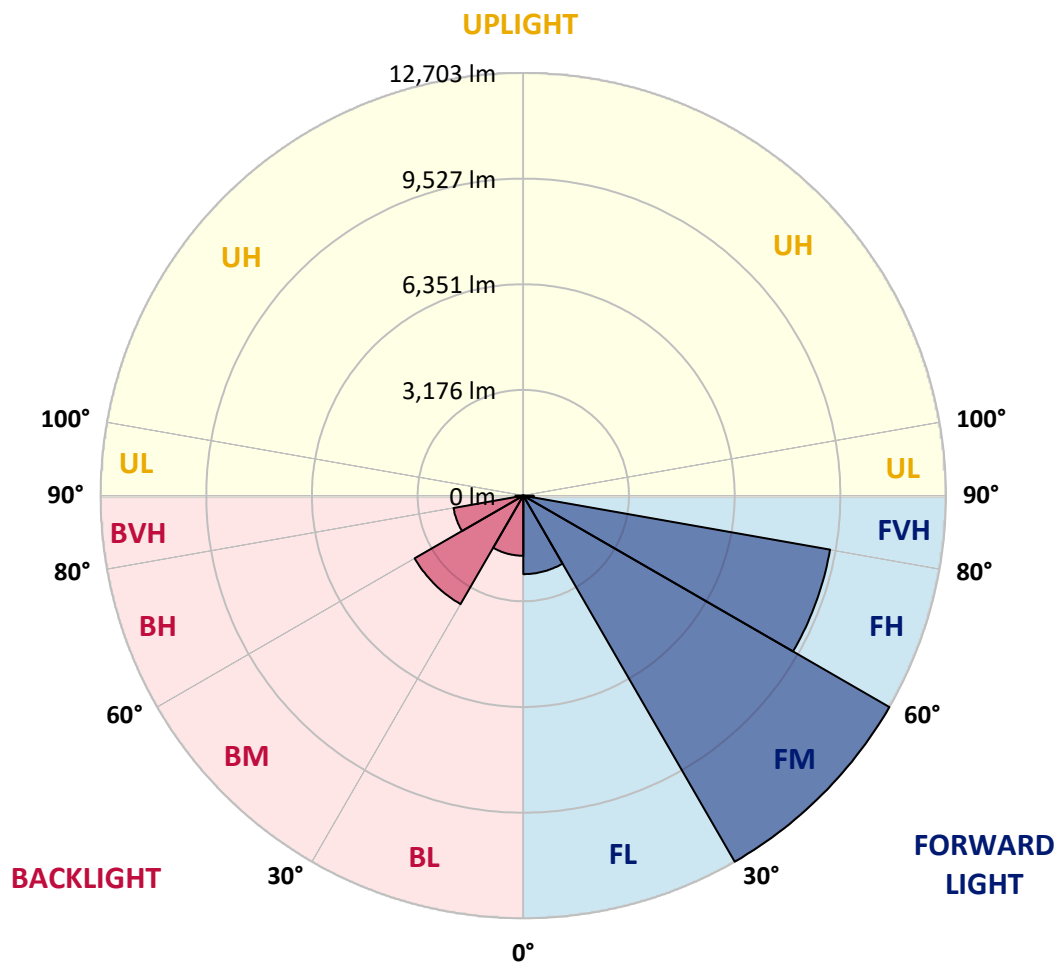
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2359.2	7.2			
FM	(30°-60°)	12702.6	38.9			
FH	(60°-80°)	9360.6	28.7			G4/12000
FVH	(80°-90°)	310.6	1.0			G3/500
BL	(0°-30°)	1807.5	5.5	B3/2500		
BM	(30°-60°)	3767.5	11.5	B3/5000		
BH	(60°-80°)	2129.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	231.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2
2.5°	4432.4	4430.5	4436.0	4430.5	4434.2	4421.4	4416.0	4419.6	4414.2	4405.0	4388.7
5°	4487.0	4485.2	4487.0	4479.7	4483.3	4476.1	4463.3	4467.0	4457.9	4437.8	4414.2
7.5°	4579.9	4572.6	4572.6	4570.8	4563.5	4552.5	4543.4	4539.8	4530.7	4505.2	4468.8
10°	4700.1	4700.1	4701.9	4687.3	4696.4	4676.4	4667.3	4665.5	4634.5	4601.7	4550.7
12.5°	4858.5	4867.6	4862.1	4854.8	4851.2	4843.9	4813.0	4820.2	4785.6	4729.2	4667.3
15°	5055.1	5069.7	5060.6	5057.0	5047.9	5020.6	5007.8	5002.3	4956.8	4874.9	4792.9
17.5°	5315.6	5297.3	5290.1	5281.0	5242.7	5222.7	5200.8	5197.2	5157.1	5060.6	4933.1
20°	5543.2	5568.7	5554.1	5545.0	5506.8	5468.5	5452.1	5446.7	5412.1	5306.5	5102.5
22.5°	5814.5	5820.0	5825.4	5803.6	5785.4	5756.2	5727.1	5718.0	5705.3	5596.0	5346.5
25°	6104.1	6125.9	6107.7	6085.8	6064.0	6062.2	6089.5	6085.8	6080.4	5974.8	5670.7
27.5°	6575.7	6595.7	6601.2	6577.5	6493.8	6501.0	6563.0	6583.0	6666.8	6491.9	6087.7
30°	6841.6	6861.6	6907.1	6996.4	7129.3	7245.8	7395.2	7440.7	7520.8	7191.2	6583.0
32.5°	7005.5	7012.7	7094.7	7260.4	7659.2	8094.4	8500.5	8516.9	8567.9	8105.4	7036.4
35°	7264.0	7269.5	7335.1	7517.2	7985.2	8709.9	9338.2	9358.2	9316.3	8389.4	7247.7
37.5°	7582.7	7597.3	7639.2	7790.3	8349.4	9225.3	9686.0	9671.4	9299.9	8615.2	7621.0
40°	8047.1	8047.1	7997.9	8201.9	8733.6	9520.3	9808.0	9782.5	9684.2	9269.0	8189.1
42.5°	8456.8	8449.5	8566.1	8704.5	9214.4	9975.5	10319.7	10361.6	10523.7	10090.3	8835.6
45°	8990.4	9023.2	9088.7	9340.0	10032.0	10753.1	11197.4	11237.5	11467.0	11057.2	9591.3
47.5°	9529.4	9540.3	9746.1	10081.2	11044.5	11807.5	12171.7	12237.3	12446.7	12188.1	10405.3
50°	9911.8	10015.6	10345.2	10873.3	12087.9	13093.1	13377.2	13455.5	13825.2	13419.1	11354.1
52.5°	10316.1	10418.1	10820.5	11625.4	13286.2	14407.9	14757.5	14810.4	15194.6	14664.7	12324.7
55°	10662.1	10756.8	11213.8	12291.9	14240.4	15750.0	16383.7	16321.8	16505.7	15624.3	13073.1
57.5°	10718.5	10795.0	11370.4	12718.0	14957.9	16900.9	17809.6	17846.0	17632.9	16341.8	13690.4
60°	10281.5	10438.1	11099.1	12672.5	15280.2	17702.1	18873.0	18898.5	18294.0	16709.7	13936.3
62.5°	9507.5	9491.2	10290.6	11940.4	14828.6	17884.2	19499.5	19472.2	18552.5	16533.0	13697.7
64°	8438.6	8635.3	9381.9	11040.8	14100.2	17603.8	19565.0	19550.5	18428.7	16165.2	13291.6
65°	7786.7	7775.8	8513.3	10305.1	13375.4	17181.3	19448.5	19428.5	18170.1	15835.6	12976.6
67.5°	5621.5	5647.0	6375.4	7952.4	10873.3	15529.7	18689.1	18614.5	17150.4	14743.0	11778.4
70°	3405.3	3419.9	3991.7	5275.5	7804.9	12554.1	16846.3	16849.9	15589.7	13111.3	10024.7
72.5°	1793.7	1831.9	2061.4	2995.6	4740.1	8808.3	13666.8	13990.9	13384.5	11190.2	7919.6
75°	997.9	1003.4	1165.5	1476.8	2418.3	4929.5	10272.4	10365.2	10596.5	9006.8	5856.4
77.5°	761.2	772.1	823.1	954.2	1316.6	2285.4	6217.0	6683.1	7468.0	6349.9	3341.6
80°	617.3	628.3	672.0	750.3	875.9	1083.5	2888.1	3139.4	3997.1	2818.9	1303.8
82.5°	480.7	473.5	529.9	580.9	637.4	641.0	1185.5	1311.1	1628.0	1212.8	564.5
85°	356.9	356.9	402.4	391.5	411.6	375.1	522.6	577.3	651.9	515.3	262.2
87.5°	142.0	156.6	264.0	236.7	183.9	147.5	193.0	204.0	225.8	202.1	109.3
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°	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2	4383.2
2.5°	4390.5	4395.9	4383.2	4374.1	4370.4	4365.0	4359.5	4361.3	4368.6	4375.9	4374.1
5°	4412.3	4414.2	4392.3	4381.4	4374.1	4366.8	4366.8	4372.3	4386.8	4397.8	4397.8
7.5°	4467.0	4467.0	4436.0	4416.0	4405.0	4392.3	4388.7	4390.5	4401.4	4416.0	4417.8
10°	4552.5	4545.3	4505.2	4474.2	4454.2	4423.3	4395.9	4381.4	4386.8	4395.9	4395.9
12.5°	4656.3	4636.3	4585.3	4543.4	4494.3	4436.0	4379.6	4350.4	4348.6	4357.7	4354.1
15°	4767.4	4745.6	4674.6	4598.1	4512.5	4426.9	4359.5	4317.6	4284.9	4275.8	4295.8
17.5°	4896.7	4851.2	4752.9	4647.2	4519.8	4408.7	4303.1	4217.5	4159.2	4142.8	4148.3
20°	5053.3	4993.2	4860.3	4694.6	4514.3	4343.1	4179.2	4064.5	3969.8	3940.7	3944.3
22.5°	5270.0	5166.2	4971.4	4718.3	4468.8	4219.3	3991.7	3842.4	3727.6	3682.1	3709.4
25°	5515.9	5403.0	5077.0	4712.8	4350.4	4020.8	3769.5	3574.7	3470.9	3403.5	3418.1
27.5°	5854.6	5654.3	5189.9	4663.6	4181.1	3778.6	3487.3	3303.3	3208.6	3174.0	3190.4
30°	6288.0	5980.2	5311.9	4530.7	3913.4	3472.7	3203.2	3083.0	3026.5	2982.8	2997.4
32.5°	6601.2	6209.7	5339.2	4306.7	3623.8	3194.1	3010.1	2920.9	2859.0	2817.1	2826.2
35°	6825.2	6404.5	5326.5	4031.7	3321.5	2964.6	2857.2	2784.3	2684.2	2593.1	2576.7
37.5°	7125.6	6648.5	5233.6	3731.3	3022.9	2809.8	2733.4	2598.6	2454.7	2332.7	2327.3
40°	7586.4	6934.4	5035.1	3378.0	2767.9	2695.1	2602.2	2427.4	2272.6	2174.3	2167.0
42.5°	8061.7	7198.5	4765.6	3006.5	2558.5	2574.9	2462.0	2289.0	2194.3	2130.6	2123.3
45°	8642.6	7484.4	4474.2	2684.2	2403.7	2462.0	2340.0	2239.9	2183.4	2141.5	2130.6
47.5°	9270.8	7777.6	4146.5	2394.6	2272.6	2358.2	2289.0	2243.5	2212.5	2183.4	2170.7
50°	9948.2	8105.4	3838.7	2161.6	2154.3	2250.8	2283.6	2267.2	2249.0	2239.9	2228.9
52.5°	10691.2	8440.4	3580.1	1997.7	2050.5	2174.3	2285.4	2298.1	2298.1	2292.7	2285.4
55°	11193.8	8673.5	3317.9	1864.7	1944.8	2112.4	2281.7	2330.9	2349.1	2341.8	2334.5
57.5°	11565.3	8801.0	2988.3	1750.0	1855.6	2052.3	2261.7	2334.5	2352.8	2361.9	2358.2
60°	11641.8	8682.6	2556.7	1629.8	1759.1	1964.9	2188.9	2279.9	2303.6	2360.0	2365.5
62.5°	11297.6	8318.4	2127.0	1511.4	1640.7	1831.9	2090.5	2218.0	2265.3	2352.8	2361.9
64°	10875.1	7910.5	1888.4	1436.8	1564.3	1757.3	2041.4	2201.6	2263.5	2380.1	2387.4
65°	10565.6	7613.7	1739.1	1389.4	1515.1	1708.1	2014.0	2207.1	2279.9	2422.0	2432.9
67.5°	9425.6	6592.1	1438.6	1278.4	1398.5	1624.3	2019.5	2252.6	2276.3	2438.3	2436.5
70°	7799.4	5248.2	1205.5	1176.4	1285.6	1557.0	1997.7	2179.8	2181.6	2289.0	2263.5
72.5°	5840.0	3878.8	1045.3	1070.8	1160.0	1396.7	1886.6	2081.4	2050.5	2065.0	2039.5
75°	4011.7	2565.8	899.6	957.9	1028.9	1234.7	1730.0	1890.2	1841.1	1822.8	1804.6
77.5°	2141.5	1418.6	748.4	846.8	894.1	1067.1	1509.6	1664.4	1613.4	1542.4	1518.7
80°	866.8	668.3	602.8	701.1	728.4	859.5	1256.5	1353.0	1314.8	1190.9	1150.9
82.5°	435.2	400.6	473.5	551.8	553.6	613.7	934.2	1025.2	939.6	788.5	753.9
85°	227.6	234.9	326.0	387.9	342.4	331.4	560.9	621.0	570.0	495.3	446.1
87.5°	81.9	94.7	171.2	169.4	120.2	63.7	123.8	60.1	32.8	20.0	25.5
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)