

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: P647298

Luminaire Tested: **GALN-SA2D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8942.6 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

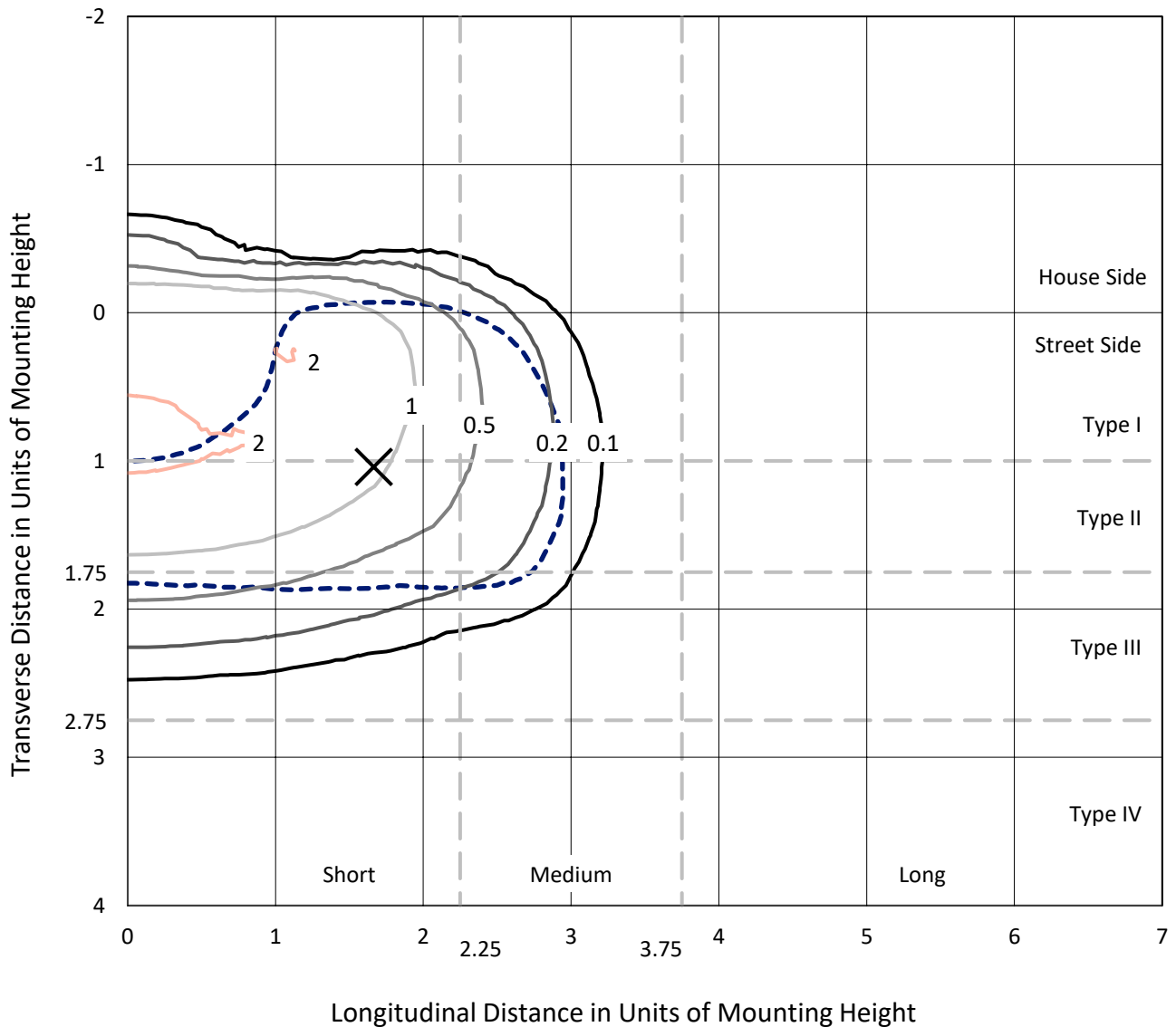
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

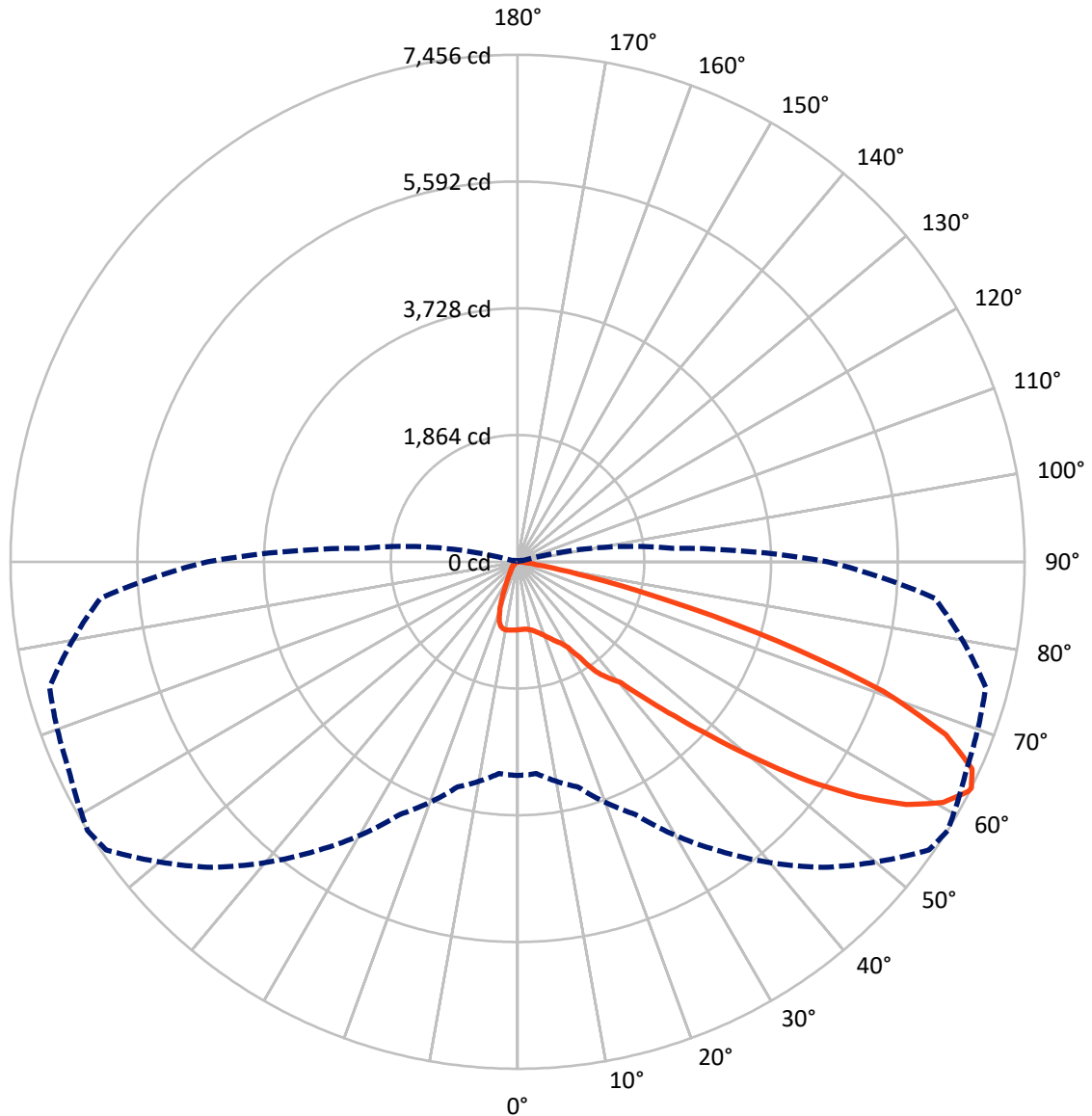
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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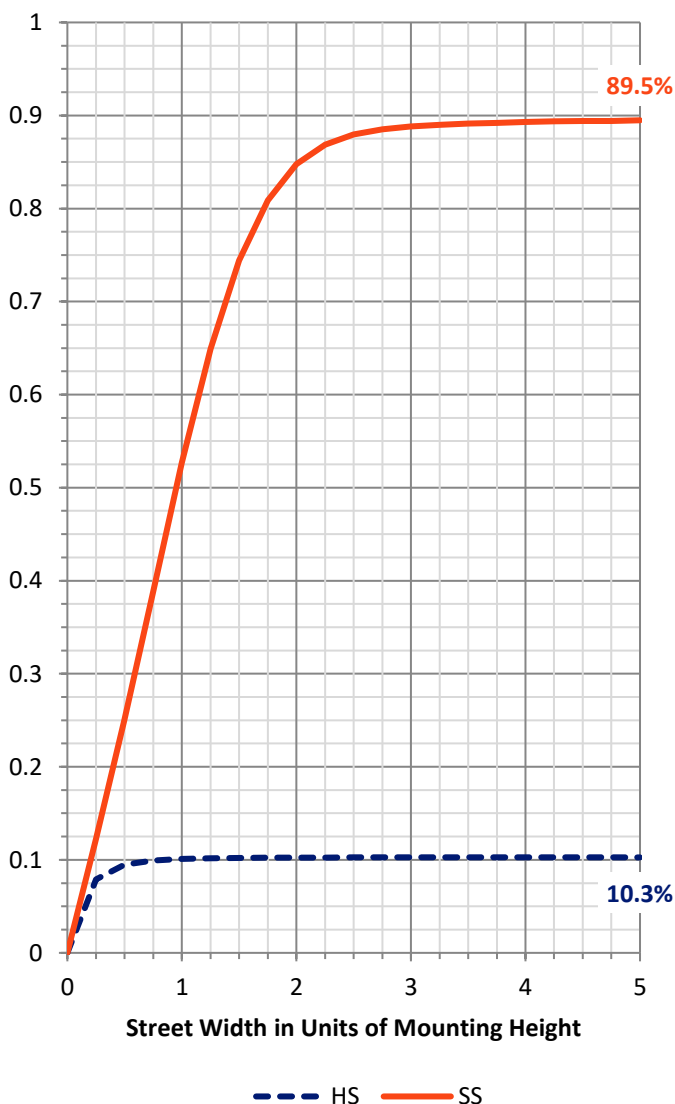
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.0	0.0	926.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8016.7	0.0	8016.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	8942.6	0.0	8942.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.0
10°-20°	255.3	2.9
20°-30°	443.0	5.0
30°-40°	814.1	9.1
40°-50°	1532.5	17.1
50°-60°	2621.3	29.3
60°-70°	2509.9	28.1
70°-80°	640.0	7.2
80°-90°	32.7	0.4
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°	8942.6	100.0
0°-180°	8942.6	100.0

Coefficient of Utilization



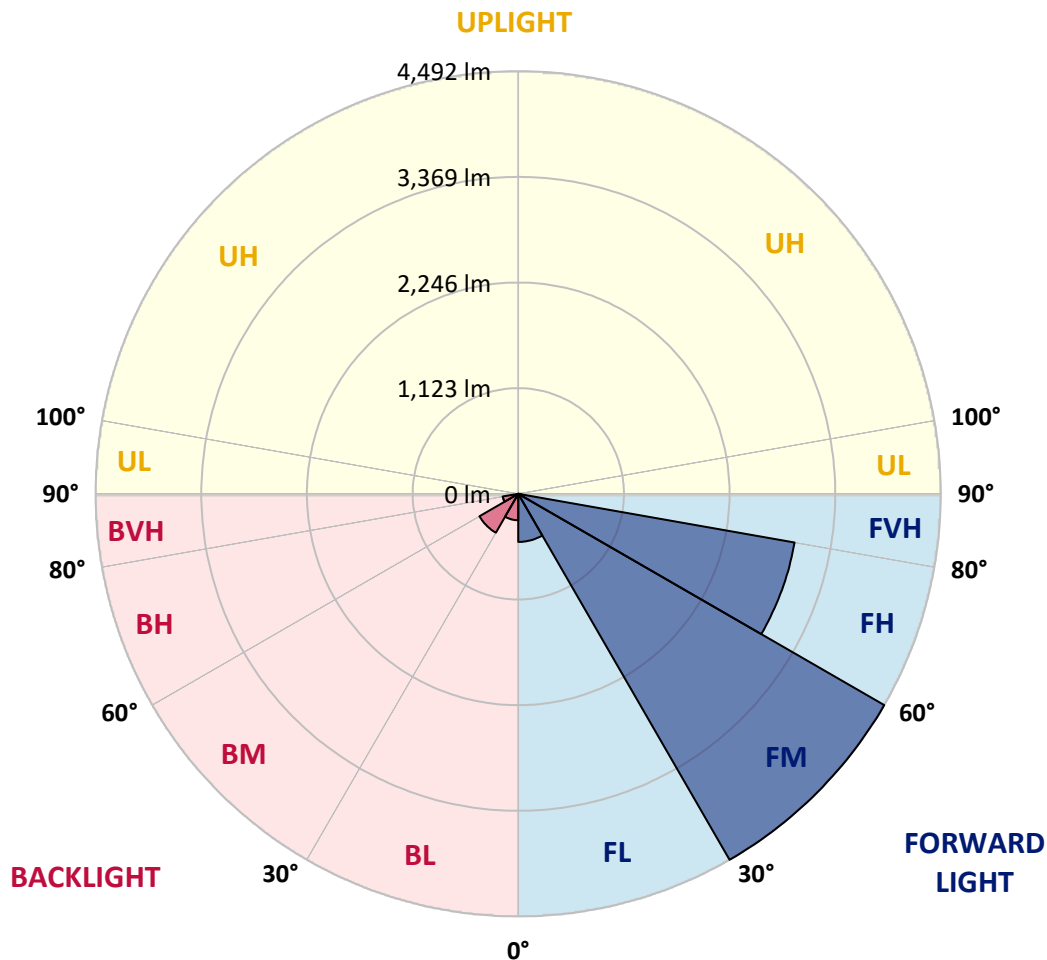
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.2	5.7			
FM (30°-60°)	4491.7	50.2			
FH (60°-80°)	2982.3	33.3			G2/5000
FVH (80°-90°)	31.5	0.4			G1/100
BL (0°-30°)	280.8	3.1	B1/500		
BM (30°-60°)	476.3	5.3	B1/1000		
BH (60°-80°)	167.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	976.2	979.6	983.0	984.3	989.0	993.8	997.2	996.4	1001.8	1004.5	1004.5
5°	937.2	937.2	945.9	954.0	967.5	980.9	993.8	996.4	1006.5	1015.9	1019.3
7.5°	904.2	906.2	913.0	927.8	945.9	969.5	995.1	1001.1	1018.7	1039.5	1048.3
10°	888.7	890.0	898.8	914.3	937.2	969.5	1005.2	1016.6	1043.6	1076.5	1088.7
12.5°	885.3	887.4	896.1	913.6	939.9	978.9	1027.5	1039.5	1078.6	1121.0	1139.2
15°	891.4	892.8	901.5	920.3	949.3	995.7	1057.0	1073.9	1120.3	1169.5	1193.1
17.5°	913.0	911.6	917.7	933.2	965.5	1016.6	1092.8	1113.0	1167.5	1234.8	1250.3
20°	1004.5	995.7	990.4	976.9	989.7	1046.2	1135.8	1165.4	1232.8	1301.4	1312.2
22.5°	1201.8	1182.3	1143.9	1091.3	1051.0	1086.6	1187.7	1222.0	1308.9	1376.2	1376.2
25°	1452.9	1428.0	1389.7	1275.2	1176.2	1153.4	1246.2	1289.3	1391.6	1459.7	1437.4
27.5°	1767.4	1747.8	1673.1	1539.8	1388.3	1269.8	1314.3	1354.0	1465.1	1547.2	1500.7
30°	2023.2	2013.8	1952.5	1833.3	1666.4	1493.3	1440.8	1467.1	1562.7	1657.6	1609.8
32.5°	2239.3	2239.3	2176.7	2065.6	1909.4	1755.9	1655.6	1674.4	1766.0	1875.8	1786.9
35°	2477.0	2468.9	2418.4	2312.7	2137.7	2002.4	1961.3	1986.9	2069.6	2151.1	1932.3
37.5°	2726.8	2724.1	2671.6	2569.3	2426.5	2256.1	2159.9	2166.6	2209.0	2258.9	2102.7
40°	2998.1	3002.2	2933.4	2870.2	2735.5	2561.1	2376.6	2334.3	2374.0	2514.7	2417.0
42.5°	3318.6	3309.2	3279.5	3193.4	3084.9	2980.6	2759.1	2743.6	2778.6	2929.4	2823.7
45°	3690.9	3704.4	3653.2	3605.4	3532.7	3445.8	3260.6	3233.8	3272.2	3506.4	3356.3
47.5°	4063.9	4051.1	4084.1	4075.4	4114.4	4049.8	3886.2	3831.0	3923.2	4145.4	3924.6
50°	4348.0	4362.2	4430.8	4531.1	4698.8	4735.2	4578.3	4559.4	4600.5	4743.3	4432.9
52.5°	4532.5	4579.6	4687.4	4945.2	5247.5	5482.5	5363.3	5353.2	5336.4	5374.7	4919.0
55°	4653.1	4700.8	4841.5	5221.3	5741.7	6123.5	6129.5	6086.4	5975.3	5947.7	5373.4
57.5°	4579.0	4588.4	4789.0	5296.7	6015.7	6580.6	6778.6	6735.4	6530.1	6425.8	5774.7
60°	4115.8	4135.3	4414.7	5011.2	5896.5	6730.1	7208.8	7189.3	6964.4	6846.6	6087.1
62.5°	3295.0	3351.6	3639.1	4304.2	5342.5	6478.3	7383.1	7438.3	7263.3	7101.0	6185.4
63°	3144.2	3126.0	3429.7	4098.2	5195.7	6353.7	7385.9	7455.9	7276.8	7125.3	6158.5
65°	2327.5	2382.0	2579.4	3231.8	4323.8	5774.0	7219.6	7343.4	7226.9	7018.3	5860.2
67.5°	1306.8	1304.2	1522.3	2114.7	3026.4	4529.1	6528.1	6790.0	6765.7	6297.8	4857.7
70°	639.6	649.7	739.2	1096.1	1755.3	3124.7	5424.6	5707.4	5716.1	4946.6	3359.0
72.5°	289.5	294.3	358.2	533.9	902.2	1663.6	3738.0	4008.0	3958.2	3152.3	1854.8
75°	152.8	162.9	197.2	268.6	435.0	686.1	2033.3	2294.5	2190.2	1440.2	682.7
77.5°	113.1	116.5	134.0	171.0	232.9	267.3	877.3	1043.6	977.6	521.1	226.2
80°	82.8	85.5	99.7	121.2	146.8	136.0	330.6	379.1	340.0	177.0	69.4
82.5°	50.5	51.2	72.7	90.2	92.2	76.1	109.1	117.1	122.5	99.7	37.7
85°	18.2	22.9	49.2	65.3	54.5	38.4	45.8	50.5	55.2	63.3	22.2
87.5°	2.0	2.7	23.6	31.6	15.5	14.2	16.8	18.9	20.2	23.6	10.8
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°	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1	1001.1
2.5°	1007.3	1009.9	1007.9	1004.5	1003.9	1001.8	997.8	997.8	997.8	999.1	997.8
5°	1022.0	1024.1	1019.3	1012.6	1005.2	995.7	985.6	979.6	978.9	977.6	974.2
7.5°	1050.3	1053.0	1042.3	1026.0	1005.8	983.0	961.4	941.2	931.8	924.4	924.4
10°	1091.3	1094.1	1072.6	1043.6	1003.2	956.7	905.5	859.1	822.8	805.9	801.9
12.5°	1140.5	1141.8	1106.2	1055.7	989.0	899.5	790.4	688.7	618.1	585.8	582.4
15°	1194.4	1185.0	1137.9	1060.4	948.7	781.7	593.1	468.6	395.2	373.6	381.7
17.5°	1249.0	1231.4	1162.1	1053.0	857.8	593.1	398.5	319.8	296.9	290.9	290.9
20°	1300.1	1275.9	1179.6	1020.7	700.2	408.6	295.6	276.7	272.6	268.6	269.3
22.5°	1351.3	1314.3	1195.1	948.7	521.8	292.2	264.6	258.5	253.1	247.7	247.1
25°	1401.1	1349.9	1201.1	815.3	355.5	251.1	241.7	233.6	222.8	216.8	215.5
27.5°	1452.9	1393.0	1197.1	647.0	259.2	224.9	215.5	204.0	191.2	180.4	180.4
30°	1552.6	1475.2	1183.0	465.3	218.1	197.9	185.8	167.6	153.5	142.7	142.0
32.5°	1688.6	1582.2	1134.5	327.2	193.9	174.4	156.2	136.0	121.2	113.1	113.1
35°	1809.7	1689.9	1043.6	241.0	174.4	151.5	129.3	109.8	98.3	92.9	90.9
37.5°	1994.2	1847.5	918.4	195.9	155.5	131.3	108.4	90.2	80.8	76.7	76.7
40°	2270.9	2040.0	764.8	171.7	137.3	111.7	90.2	76.1	68.7	64.0	64.0
42.5°	2614.4	2275.7	609.3	154.2	120.5	96.3	75.4	64.6	57.9	54.5	53.9
45°	3046.6	2524.1	469.3	138.0	107.0	82.1	64.0	54.5	47.8	45.8	46.4
47.5°	3497.7	2742.9	363.5	123.9	92.9	69.4	54.5	47.1	42.4	39.7	39.7
50°	3882.8	2893.7	276.0	107.7	82.1	58.6	47.8	42.4	38.4	37.0	36.3
52.5°	4204.6	2937.5	211.4	93.6	72.0	50.5	42.4	38.4	35.0	33.0	33.0
55°	4478.6	2899.1	165.6	78.8	60.6	43.8	37.7	34.4	30.3	28.3	27.6
57.5°	4638.9	2775.9	126.6	65.3	49.2	36.3	33.0	29.0	24.3	20.9	20.9
60°	4719.7	2596.8	96.9	53.9	37.7	29.0	26.9	21.5	16.8	14.2	13.5
62.5°	4622.8	2359.2	73.4	42.4	28.3	21.5	18.2	15.5	10.8	8.1	8.1
63°	4562.8	2290.5	70.7	40.4	26.2	20.2	16.8	14.2	9.4	7.4	6.7
65°	4159.5	1990.9	57.9	32.3	20.9	14.2	11.4	10.1	6.7	3.4	2.7
67.5°	3303.1	1522.9	45.8	24.3	14.8	10.1	6.7	6.0	2.0	0.0	0.0
70°	2233.3	983.7	35.7	17.5	10.1	6.0	3.4	2.7	0.7	0.0	0.0
72.5°	1164.8	504.3	27.6	12.8	6.0	4.1	2.0	0.7	0.0	0.0	0.0
75°	412.0	171.7	20.2	8.1	4.1	2.0	0.7	0.0	0.0	0.0	0.0
77.5°	124.6	64.0	12.8	6.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0
80°	43.8	23.6	7.4	4.1	2.0	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	11.4	4.7	3.4	2.0	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.1	7.4	4.1	3.4	2.0	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	5.4	4.1	3.4	2.7	1.3	0.7	0.0	0.0	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)