

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: P526230

Luminaire Tested: **GALN-SA1A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

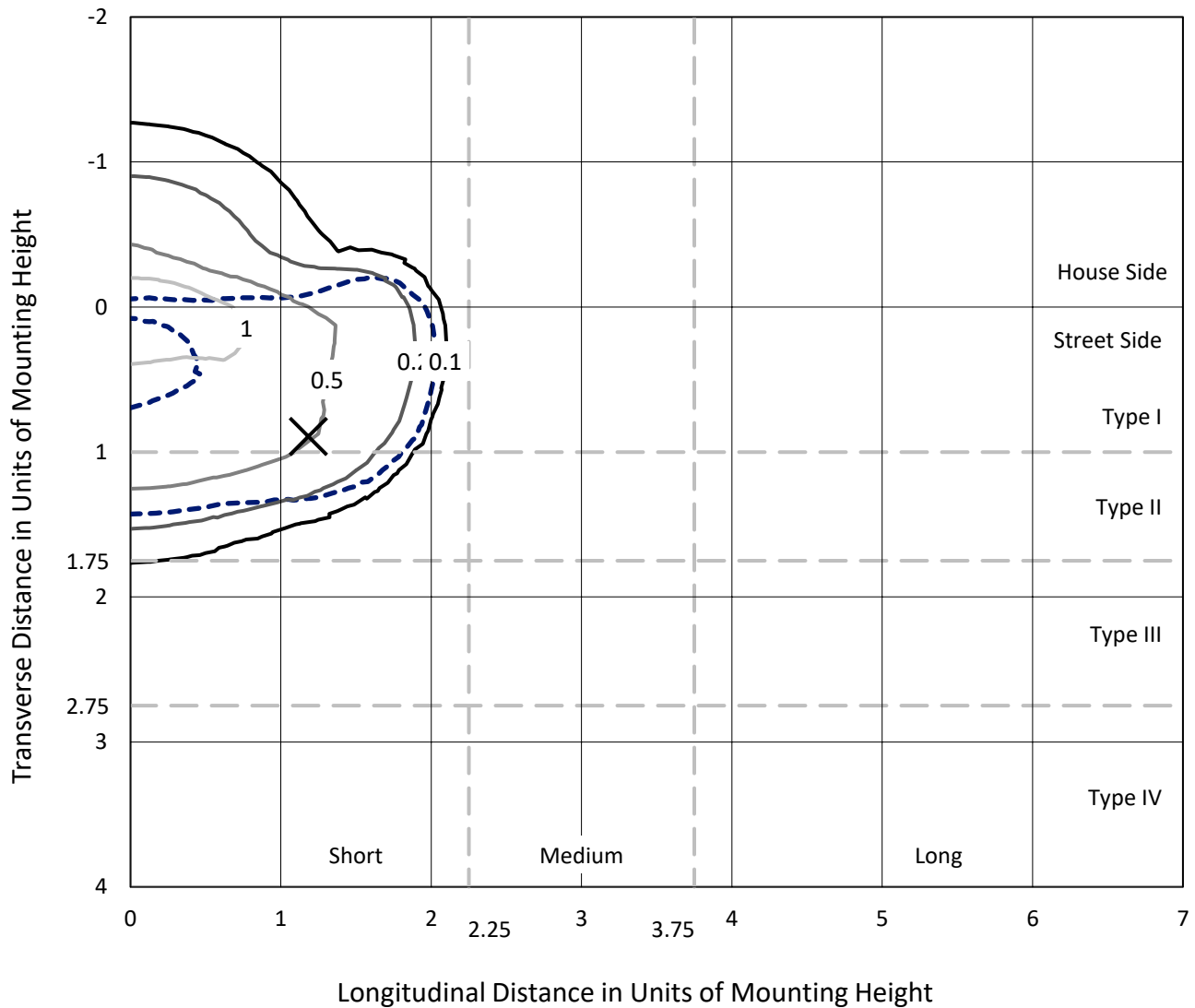


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Iso-Footcandle Lines of Horizontal Illumination

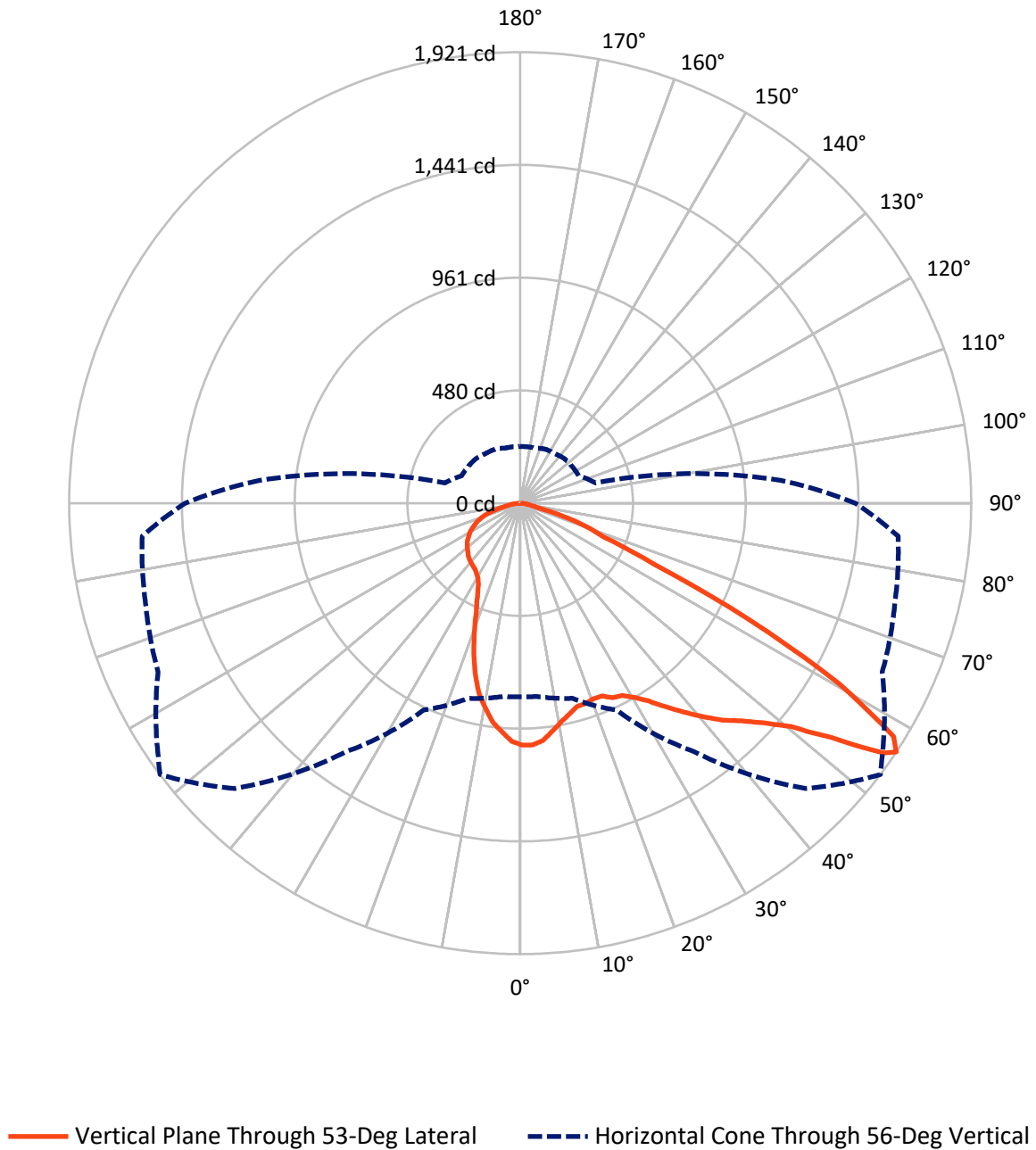
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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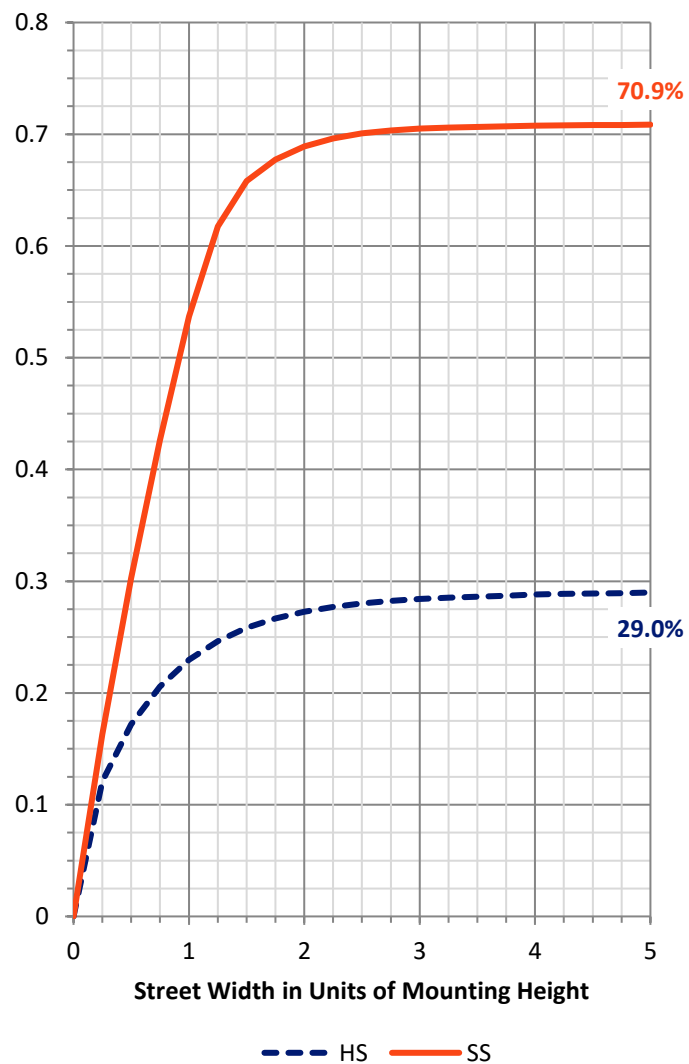
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.3	0.0	909.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2206.7	0.0	2206.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	3116.0	0.0	3116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	2.9
10°-20°	227.9	7.3
20°-30°	336.1	10.8
30°-40°	480.2	15.4
40°-50°	661.0	21.2
50°-60°	781.1	25.1
60°-70°	416.3	13.4
70°-80°	105.6	3.4
80°-90°	16.5	0.5
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°	3116.0	100.0
0°-180°	3116.0	100.0

Coefficient of Utilization



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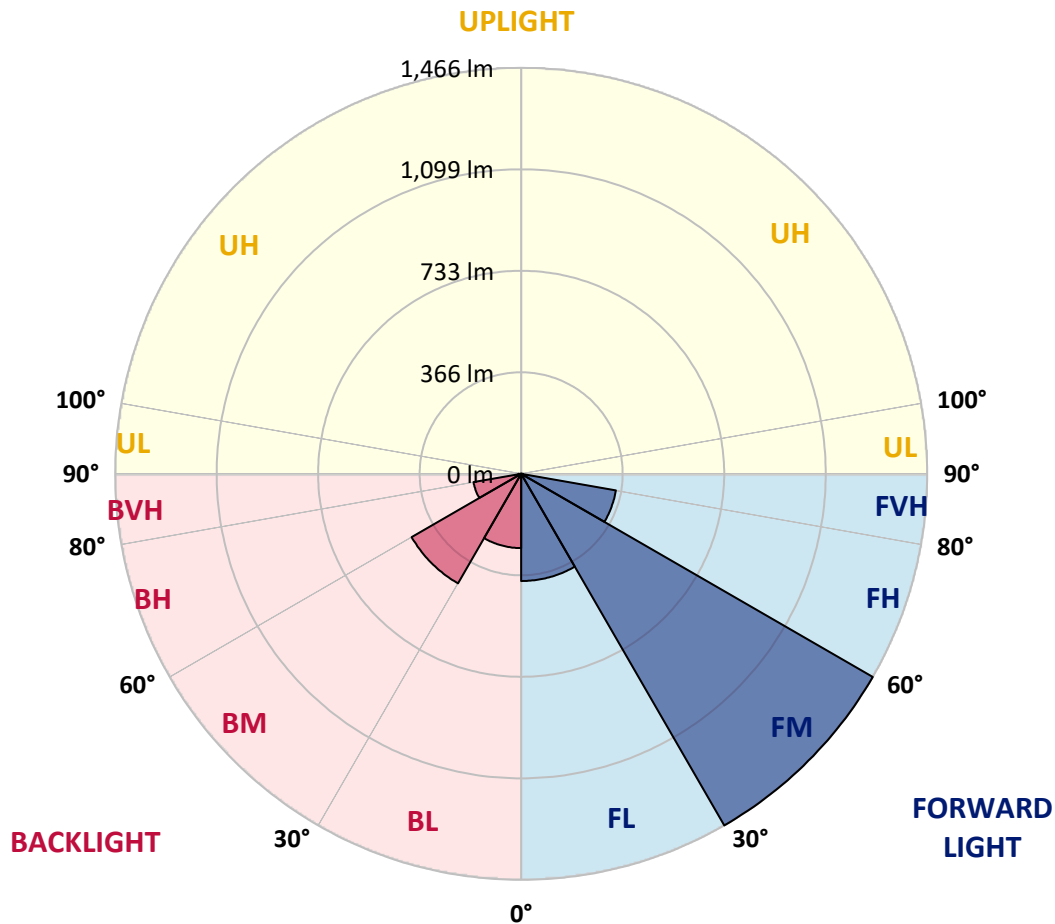
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.1	12.4			
FM	(30°-60°)	1465.7	47.0			
FH	(60°-80°)	347.2	11.1			G0/660
FVH	(80°-90°)	6.6	0.2			G0/10
BL	(0°-30°)	268.2	8.6	B1/500		
BM	(30°-60°)	456.6	14.7	B1/1000		
BH	(60°-80°)	174.6	5.6	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9
2.5°	1018.1	1009.3	1014.5	1012.5	1028.9	1033.7	1031.3	1033.3	1042.5	1038.1	1028.9
5°	951.3	963.7	966.1	972.1	981.7	1000.5	1015.3	1019.3	1023.7	1044.1	1042.1
7.5°	890.6	899.0	894.6	912.2	933.0	963.3	981.3	984.5	1024.9	1036.1	1044.5
10°	852.2	843.8	863.8	868.6	892.2	927.0	948.6	961.7	998.5	1042.9	1048.1
12.5°	816.6	813.8	825.8	839.4	865.8	901.8	923.8	929.0	985.7	1032.5	1056.9
15°	790.3	787.1	799.1	809.0	839.8	871.8	899.8	914.6	971.7	1026.5	1049.3
17.5°	769.5	769.1	775.9	793.9	825.4	852.2	897.4	898.2	964.5	1035.7	1055.7
20°	768.3	767.9	769.1	789.1	817.8	850.6	889.8	897.0	964.5	1029.3	1056.1
22.5°	778.3	771.9	779.1	791.9	812.6	853.4	892.6	908.6	987.7	1060.9	1074.1
25°	794.3	795.9	799.9	804.3	816.2	859.8	917.4	930.6	1014.9	1088.1	1098.8
27.5°	823.4	822.6	824.2	826.6	837.0	865.8	927.4	961.3	1071.7	1136.4	1125.6
30°	866.2	863.4	869.8	878.2	868.6	885.0	960.5	986.1	1124.4	1185.2	1155.6
32.5°	905.0	915.4	927.4	931.0	919.4	922.6	1004.5	1030.5	1168.4	1245.1	1192.4
35°	953.3	961.7	977.7	988.9	986.9	977.3	1064.5	1098.8	1232.0	1289.1	1231.2
37.5°	1000.5	1010.5	1036.9	1070.1	1051.7	1047.3	1128.4	1156.8	1251.5	1312.7	1259.5
40°	1076.5	1076.1	1121.6	1138.8	1155.2	1147.6	1194.8	1204.4	1261.9	1307.5	1260.3
42.5°	1165.6	1160.0	1206.4	1233.2	1254.3	1255.1	1263.9	1260.7	1266.7	1281.1	1251.9
45°	1250.3	1262.3	1309.1	1357.1	1378.3	1380.7	1322.3	1316.3	1275.1	1273.5	1236.0
47.5°	1353.9	1356.7	1395.0	1458.2	1507.4	1490.6	1397.8	1384.7	1311.9	1324.3	1262.7
50°	1359.9	1380.7	1415.0	1489.4	1640.5	1636.1	1495.8	1471.0	1371.1	1396.2	1337.5
52.5°	1234.4	1229.6	1270.3	1391.8	1630.5	1780.8	1658.1	1598.9	1498.2	1479.0	1458.6
55°	940.6	951.7	987.7	1110.4	1415.8	1782.8	1879.1	1830.7	1634.1	1601.3	1577.7
56°	825.0	826.6	860.6	972.5	1291.9	1719.2	1921.1	1881.9	1701.6	1651.7	1615.7
57.5°	683.9	674.7	692.3	753.5	1090.5	1584.9	1875.1	1913.5	1780.8	1706.0	1656.1
60°	538.4	536.4	529.2	540.4	689.1	1194.0	1560.9	1647.3	1772.8	1654.9	1586.1
62.5°	439.7	429.7	444.1	460.1	478.9	740.7	1096.9	1147.6	1407.4	1321.1	1191.6
65°	341.0	336.2	354.2	406.1	417.3	470.5	624.8	663.9	831.0	816.2	718.7
67.5°	234.6	235.4	251.0	330.2	386.9	382.1	382.5	402.9	433.7	322.2	280.6
70°	148.7	148.3	156.7	212.7	311.4	314.6	298.6	292.6	277.4	167.9	177.9
72.5°	95.5	92.7	97.1	117.5	161.1	186.3	191.9	195.5	160.7	131.9	143.1
75°	54.0	51.2	49.6	54.8	63.6	73.5	80.7	83.1	93.1	99.9	105.9
77.5°	16.4	14.8	18.0	24.0	31.6	42.4	51.6	53.2	62.8	70.8	76.7
80°	7.2	8.0	11.2	16.0	22.4	30.0	36.4	38.8	45.2	51.2	52.8
82.5°	4.4	4.8	7.6	10.8	15.6	21.2	26.0	26.8	33.2	38.0	39.2
85°	1.6	2.0	4.0	6.4	10.0	13.6	13.6	14.8	13.6	13.6	14.8
87.5°	0.0	0.0	0.4	0.8	0.8	1.2	1.6	1.6	2.0	2.4	2.8
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°	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9
2.5°	1033.7	1031.7	1028.5	1016.9	1015.7	1012.1	992.1	988.9	992.1	982.5	983.3
5°	1031.7	1037.7	1013.7	1002.1	980.5	964.9	947.0	937.8	921.4	911.0	922.6
7.5°	1040.5	1038.1	1008.1	982.9	950.6	911.0	879.4	861.4	832.6	824.6	830.6
10°	1037.3	1024.5	989.3	956.1	895.0	860.2	809.0	759.5	732.3	718.3	716.3
12.5°	1032.9	1029.3	970.5	913.4	849.0	775.9	703.9	657.2	612.8	593.6	596.4
15°	1038.1	1007.7	935.4	863.0	777.5	681.5	604.0	543.6	512.8	500.5	500.5
17.5°	1035.7	997.3	918.6	806.6	698.3	584.8	499.7	463.3	450.5	450.5	454.1
20°	1036.9	1004.1	884.6	750.3	604.8	492.5	430.5	417.3	422.9	424.9	426.9
22.5°	1043.7	981.7	851.4	688.3	518.0	421.3	390.9	391.3	401.3	412.1	410.1
25°	1052.1	972.9	811.0	626.8	451.7	386.5	376.9	375.7	383.3	388.9	389.7
27.5°	1044.9	957.7	769.9	550.0	397.3	363.4	361.4	362.2	364.6	375.7	372.1
30°	1068.5	962.1	718.3	485.7	367.3	355.8	353.4	352.2	355.8	359.0	356.2
32.5°	1097.6	946.6	679.9	423.7	352.6	350.2	345.4	343.8	345.8	342.6	344.2
35°	1110.4	943.8	630.0	379.3	341.0	339.0	336.2	335.8	336.2	333.4	331.0
37.5°	1117.6	956.9	572.8	359.0	333.8	335.8	329.4	328.6	321.4	323.0	324.2
40°	1130.0	936.6	526.4	339.4	329.4	325.4	319.8	318.6	313.8	311.0	313.8
42.5°	1112.0	930.6	480.9	331.0	323.0	318.6	314.6	307.8	306.2	303.8	302.2
45°	1097.6	896.2	440.1	320.6	315.4	313.0	305.4	298.2	292.2	294.6	291.0
47.5°	1108.4	884.2	399.7	311.8	305.0	302.2	294.6	289.0	283.0	280.2	279.4
50°	1151.6	906.6	365.8	305.4	296.2	294.6	284.6	278.2	272.6	270.6	271.4
52.5°	1254.7	967.7	342.6	292.2	287.8	280.6	275.0	267.0	263.4	257.0	261.0
55°	1385.5	1067.3	336.6	279.8	277.4	271.0	263.4	257.4	250.6	245.4	244.2
56°	1427.4	1114.8	331.8	275.0	271.0	267.4	257.4	253.8	243.0	241.8	241.0
57.5°	1461.4	1156.8	332.6	265.8	261.8	258.6	252.6	243.8	236.6	232.2	234.2
60°	1384.7	1082.9	317.4	251.8	251.0	245.0	236.6	232.6	223.8	218.7	217.5
62.5°	1029.3	735.1	257.4	233.8	233.4	227.0	217.5	213.1	211.5	204.3	204.3
65°	592.8	460.9	222.6	219.1	215.9	209.5	199.9	196.3	192.3	189.9	187.9
67.5°	253.0	239.0	202.3	201.9	198.3	190.3	180.7	175.1	169.9	165.1	167.5
70°	183.5	186.3	182.7	180.7	176.3	166.3	157.9	151.1	143.1	139.9	142.3
72.5°	145.5	151.5	156.7	157.1	151.9	140.3	131.1	121.9	113.1	108.7	110.7
75°	110.3	114.3	119.5	120.7	113.1	105.1	96.3	86.7	79.9	74.7	75.5
77.5°	79.5	78.7	83.5	82.7	79.1	73.5	65.6	56.8	49.2	44.4	44.8
80°	54.4	55.6	58.4	58.0	53.6	50.0	44.0	36.8	31.2	27.2	26.4
82.5°	38.0	40.0	42.4	40.4	36.8	33.2	28.8	23.6	19.2	16.0	15.2
85°	13.6	15.6	18.0	19.2	20.4	19.6	16.4	13.2	9.6	8.0	7.6
87.5°	2.8	3.2	3.6	3.6	3.6	3.2	2.8	2.8	2.4	1.2	1.2
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)