

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: P522635

Luminaire Tested: **GALN-SA1C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7119 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

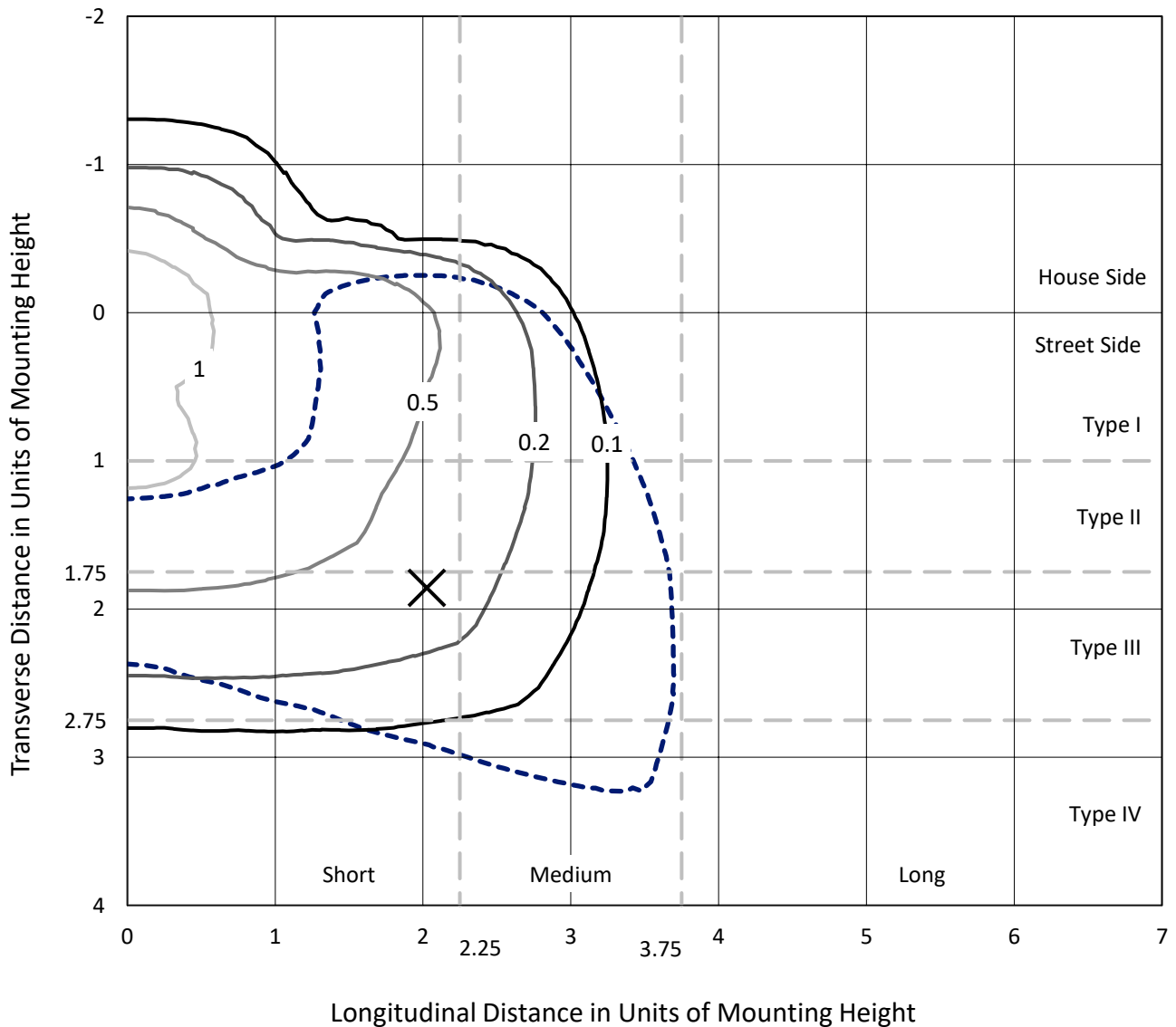
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

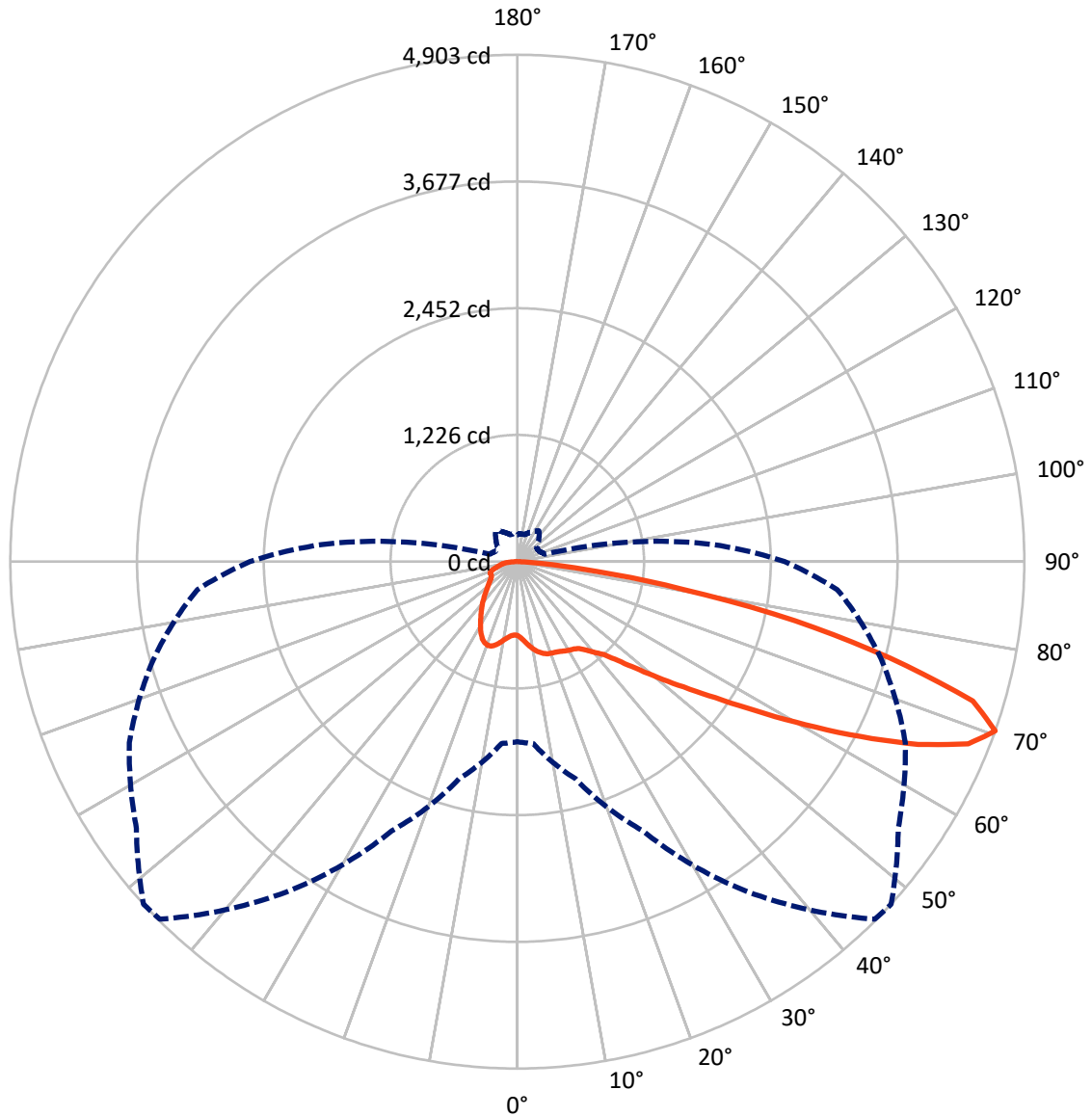
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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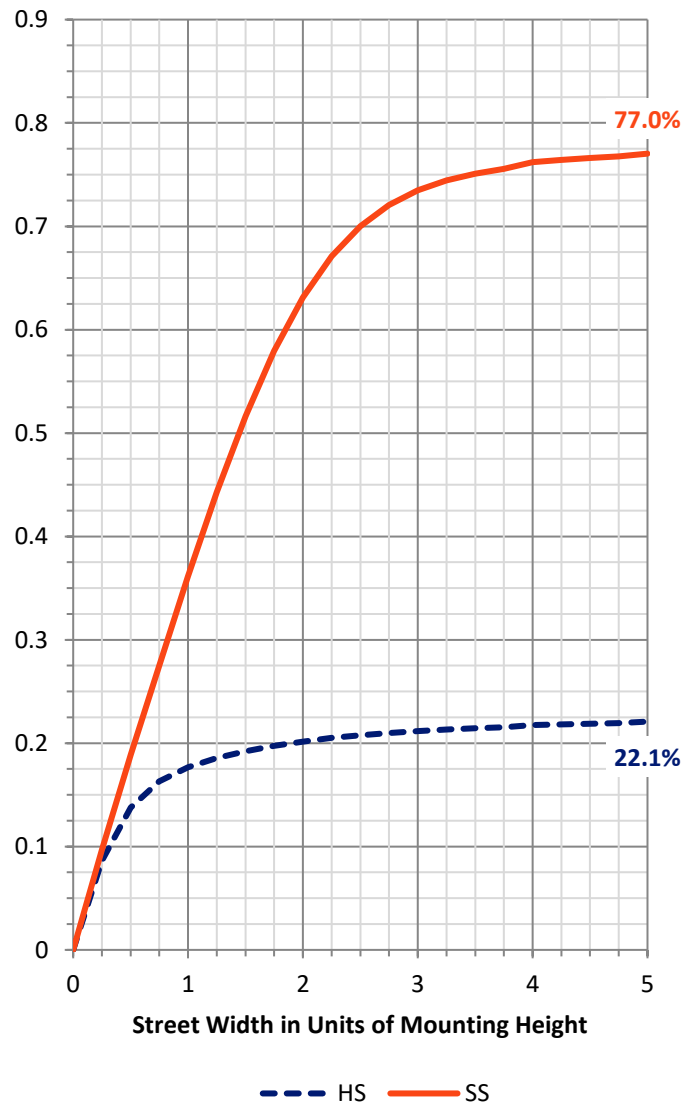
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.9	0.0	1611.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5507.1	0.0	5507.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	7119.0	0.0	7119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.0
10°-20°	246.3	3.5
20°-30°	409.5	5.8
30°-40°	580.5	8.2
40°-50°	856.9	12.0
50°-60°	1484.2	20.8
60°-70°	2096.5	29.4
70°-80°	1205.2	16.9
80°-90°	166.3	2.3
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°	7119.0	100.0
0°-180°	7119.0	100.0

Coefficient of Utilization



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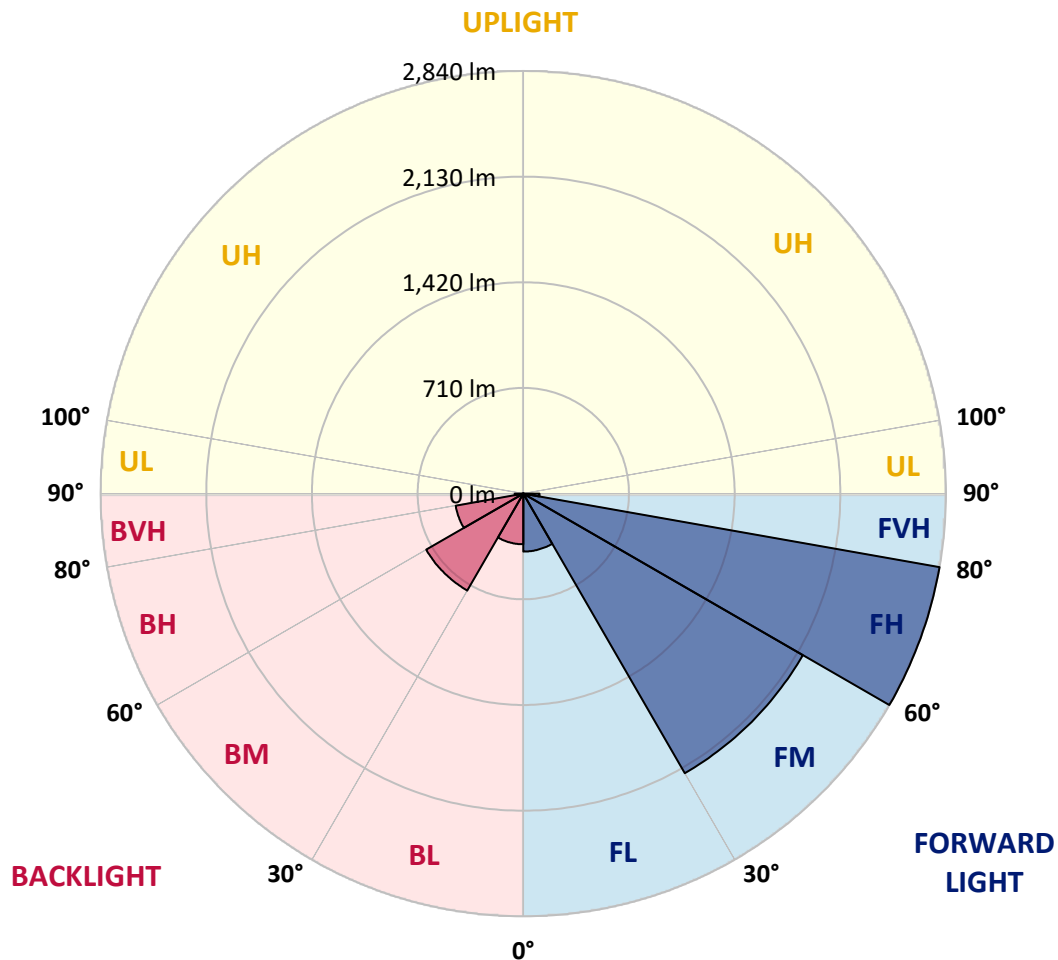
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.3	5.5			
FM	(30°-60°)	2169.0	30.5			
FH	(60°-80°)	2840.2	39.9			G2/5000
FVH	(80°-90°)	108.6	1.5			G2/225
BL	(0°-30°)	340.2	4.8	B1/500		
BM	(30°-60°)	752.6	10.6	B1/1000		
BH	(60°-80°)	461.5	6.5	B1/500		G1/500
BVH	(80°-90°)	57.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	760.8	758.1	757.7	752.0	748.9	743.2	740.9	735.6	729.1	722.7	716.6
5°	820.6	820.6	817.9	809.9	797.3	784.4	778.7	768.4	750.1	735.2	722.7
7.5°	881.9	882.7	877.3	865.5	847.6	826.7	821.3	806.1	780.2	758.5	739.8
10°	934.9	934.9	927.6	911.6	889.1	866.3	860.9	843.8	814.9	787.8	763.4
12.5°	975.2	975.2	965.7	944.8	920.4	899.8	893.7	877.3	850.3	820.2	789.3
15°	1001.5	999.6	988.9	965.3	941.7	923.8	919.6	905.9	881.1	850.7	816.0
17.5°	1002.7	1001.9	991.6	971.8	951.2	939.0	936.4	927.2	907.8	878.9	842.3
20°	980.6	982.1	975.2	961.1	951.2	945.9	944.8	941.7	928.0	900.9	864.4
22.5°	956.9	959.6	953.1	945.5	944.8	950.1	950.9	951.6	942.9	916.6	883.0
25°	951.2	953.1	946.7	939.8	944.0	958.1	961.1	964.2	957.3	935.2	905.1
27.5°	980.2	978.7	966.1	951.2	953.9	972.9	977.1	980.6	977.1	958.1	932.6
30°	1062.1	1057.1	1032.0	988.6	974.9	988.2	992.4	1001.9	1001.9	987.8	962.3
32.5°	1199.2	1189.7	1143.6	1058.3	1010.7	1002.7	1006.9	1022.5	1030.5	1019.4	991.6
35°	1365.7	1355.8	1289.9	1175.2	1076.2	1031.6	1030.5	1048.0	1069.3	1044.6	1008.4
37.5°	1532.9	1522.7	1443.4	1314.7	1171.8	1092.6	1085.7	1091.8	1100.9	1055.6	1031.6
40°	1700.2	1688.0	1618.7	1470.5	1288.8	1173.3	1155.4	1128.0	1124.2	1091.8	1076.6
42.5°	1865.9	1854.8	1819.8	1645.3	1428.9	1252.2	1224.8	1177.5	1192.0	1172.6	1159.2
45°	2033.1	2033.9	1996.6	1841.5	1598.1	1397.7	1360.8	1286.8	1321.1	1313.9	1321.5
47.5°	2181.3	2179.4	2166.1	2032.0	1808.0	1585.1	1537.5	1451.8	1510.5	1537.1	1595.4
50°	2324.9	2323.8	2324.6	2248.0	2051.8	1808.0	1755.4	1665.5	1797.7	1890.3	1994.7
52.5°	2530.6	2537.1	2491.0	2470.8	2348.2	2071.2	2013.3	1920.4	2137.1	2283.0	2486.8
55°	2737.1	2731.8	2695.6	2716.6	2658.3	2382.8	2322.3	2248.4	2515.0	2674.6	2980.9
57.5°	2858.6	2860.6	2897.5	3000.0	3041.1	2771.4	2716.6	2659.4	2939.8	3052.9	3420.5
60°	2968.0	2976.7	3083.0	3276.5	3388.2	3248.7	3200.0	3144.4	3329.5	3374.5	3802.3
62.5°	3002.3	3029.3	3214.8	3504.4	3726.5	3787.4	3726.8	3604.2	3700.5	3683.0	4060.9
65°	2831.2	2868.2	3200.7	3589.7	4028.5	4298.6	4260.2	4032.4	4016.7	3911.2	4103.2
67.5°	2380.9	2417.9	2844.9	3410.6	4153.5	4741.3	4702.8	4344.7	4208.7	3932.5	3783.2
70°	1742.1	1765.3	2173.7	2871.6	3902.5	4889.9	4903.2	4497.1	4140.2	3642.6	3106.3
72.5°	1003.8	1055.2	1341.3	2020.2	3188.2	4514.3	4606.8	4180.2	3706.6	3038.8	2171.8
75°	431.6	432.8	620.2	1114.3	2159.2	3628.5	3718.1	3465.1	2910.8	2101.3	1159.6
77.5°	205.3	209.1	272.8	497.5	1188.6	2507.0	2748.6	2448.0	1861.7	1009.5	438.1
80°	133.3	136.0	166.9	246.9	582.9	1453.7	1622.1	1412.2	821.3	360.8	189.0
82.5°	80.8	81.5	111.6	150.9	320.8	658.3	776.0	612.9	350.5	216.0	111.2
85°	49.1	49.5	67.8	93.3	194.7	227.4	233.5	231.6	205.7	141.3	59.4
87.5°	23.6	24.4	35.0	44.2	76.6	70.5	66.7	77.3	97.1	76.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	713.9	712.8	710.1	708.9	708.2	708.6	708.2	708.2	708.6	708.6	708.6
5°	717.3	715.4	711.2	711.2	713.5	718.9	723.8	727.6	731.8	731.4	731.4
7.5°	732.2	728.8	723.8	725.3	731.0	739.4	748.2	756.6	764.9	765.7	765.3
10°	753.9	750.5	745.1	747.0	756.2	768.8	779.8	792.0	801.1	803.8	803.0
12.5°	778.7	771.8	767.2	772.6	787.0	803.8	814.5	823.6	830.1	833.9	832.4
15°	803.8	797.3	792.0	803.0	820.6	836.2	841.5	843.0	844.2	848.0	847.2
17.5°	828.2	819.4	817.5	832.0	848.8	855.6	852.6	846.1	841.1	844.2	843.8
20°	849.9	843.0	842.3	856.8	863.2	856.8	843.8	832.4	823.6	824.4	824.0
22.5°	870.5	865.1	865.9	872.0	861.7	839.6	818.3	802.7	793.1	795.0	796.2
25°	893.3	888.0	889.9	880.0	846.1	807.6	776.8	763.4	759.6	763.4	766.1
27.5°	923.0	919.6	918.5	880.4	818.3	760.4	725.3	720.4	723.8	732.2	736.4
30°	955.0	955.0	948.9	873.9	780.2	703.6	673.1	673.9	685.7	697.5	701.7
32.5°	985.9	992.4	973.3	856.4	731.0	648.4	625.1	625.9	636.2	650.7	654.5
35°	1011.4	1030.1	994.3	824.4	673.1	601.9	584.4	574.1	574.5	585.5	588.6
37.5°	1046.5	1081.1	1006.5	776.8	611.4	562.3	542.5	524.6	512.8	508.2	508.2
40°	1107.4	1158.5	1009.5	706.3	553.1	524.6	496.4	475.0	452.2	431.6	427.8
42.5°	1210.7	1275.0	1003.4	625.1	500.6	483.0	455.6	429.3	397.7	368.8	366.5
45°	1393.5	1426.7	987.0	540.9	453.7	443.0	416.4	387.8	354.3	328.4	326.5
47.5°	1686.5	1639.6	965.3	466.3	411.0	408.0	387.4	354.3	320.8	302.9	301.0
50°	2114.3	1974.8	962.3	412.2	376.8	378.3	361.5	331.0	301.7	286.9	284.6
52.5°	2629.3	2379.8	982.5	374.1	346.7	352.4	344.0	315.8	289.9	277.3	275.0
55°	3129.1	2744.0	994.7	344.4	318.5	329.1	330.3	306.7	283.0	270.5	269.0
57.5°	3534.8	3018.3	940.6	317.3	294.1	310.5	318.9	301.3	279.6	270.1	268.6
60°	3817.1	3147.8	786.7	293.3	276.2	295.6	314.7	301.7	288.0	289.1	289.9
62.5°	3907.0	3090.3	590.1	275.4	264.0	290.7	321.5	317.3	303.2	312.0	313.5
65°	3758.1	2852.6	427.8	261.3	253.3	294.1	342.1	328.8	297.9	304.4	304.4
67.5°	3259.4	2457.5	333.0	248.4	241.1	300.6	362.7	327.6	285.3	293.0	286.1
70°	2585.5	1900.9	277.3	233.9	228.2	291.0	364.6	315.8	270.5	272.0	259.0
72.5°	1715.8	1249.9	238.5	220.2	208.4	261.7	349.0	300.6	256.0	247.2	234.3
75°	840.8	623.2	208.0	203.0	182.5	227.8	327.6	286.1	240.4	226.7	219.4
77.5°	325.7	265.1	177.5	181.3	158.9	200.8	299.4	265.5	219.8	201.1	195.4
80°	158.1	150.5	145.5	151.2	130.7	171.0	273.5	247.6	200.8	180.2	171.8
82.5°	98.3	93.0	111.6	117.7	100.6	156.2	259.4	232.4	176.8	149.3	142.5
85°	49.9	53.3	74.7	80.4	72.0	124.2	213.7	174.5	127.6	105.9	106.7
87.5°	19.0	25.5	39.2	42.3	38.5	65.5	117.7	101.7	81.9	55.6	51.4
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)