

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: P450448

Luminaire Tested: **GALN-SA1B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4805 lumens
Efficiency: N/A
Efficacy: 109.2 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

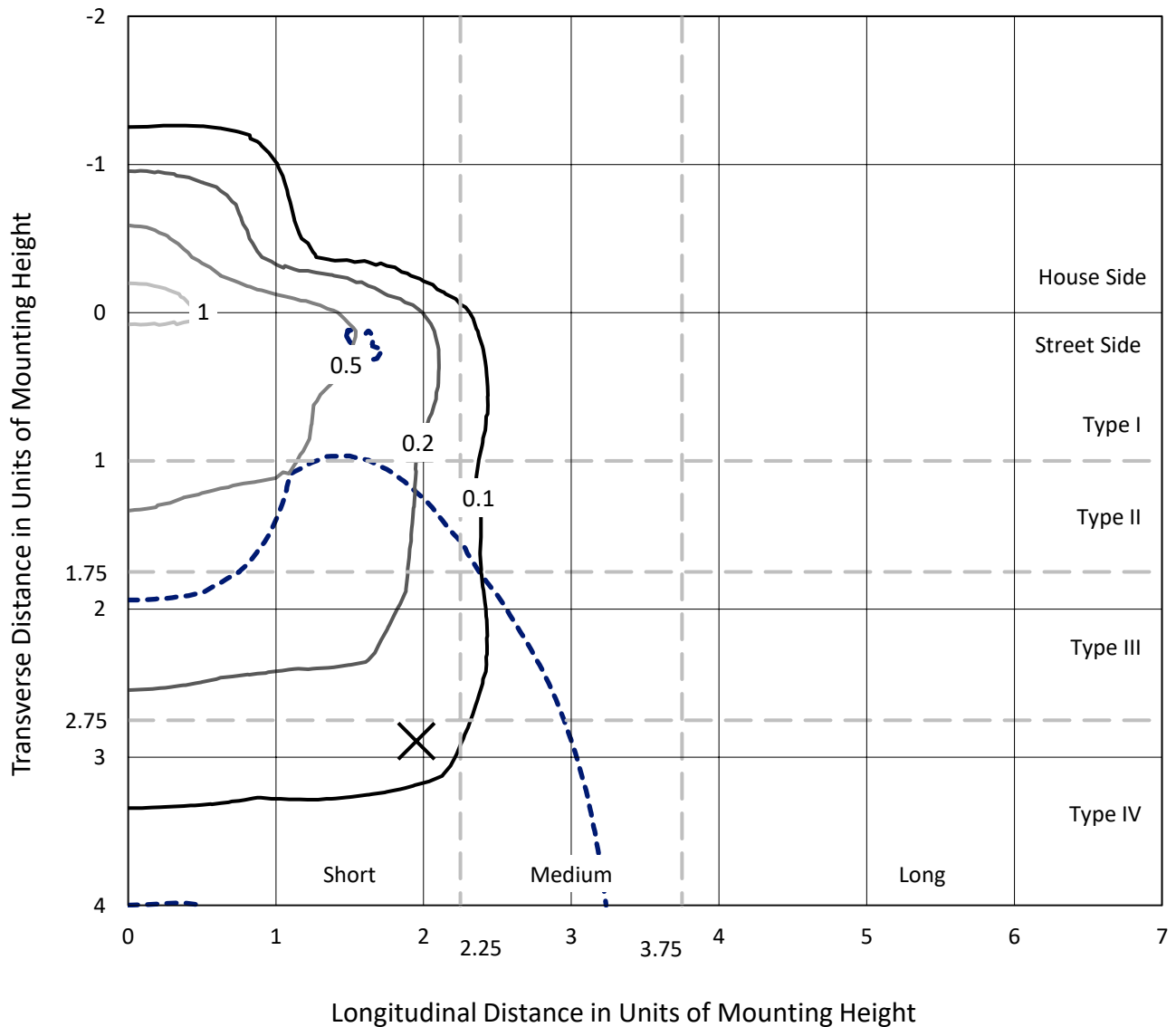
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

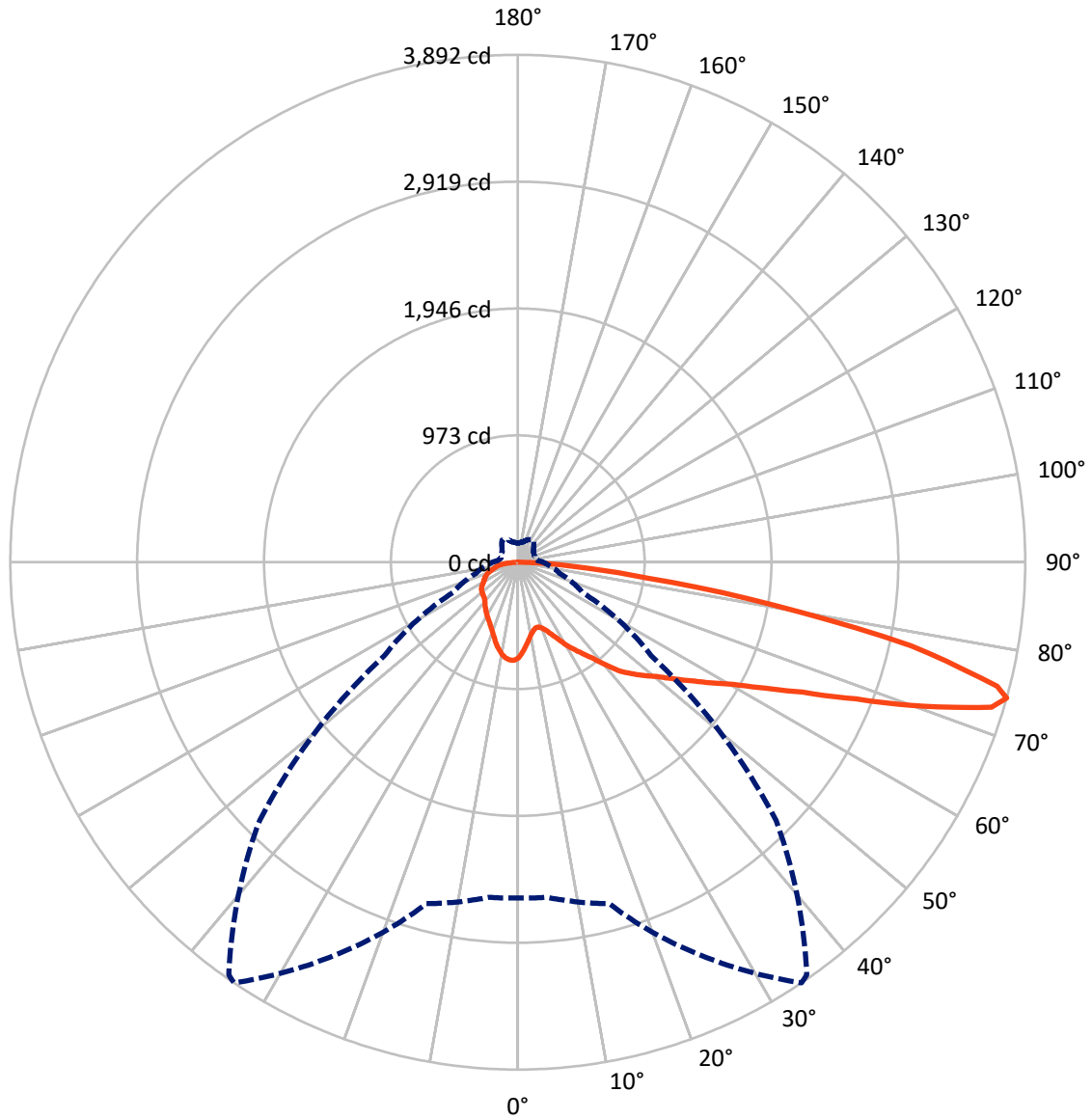
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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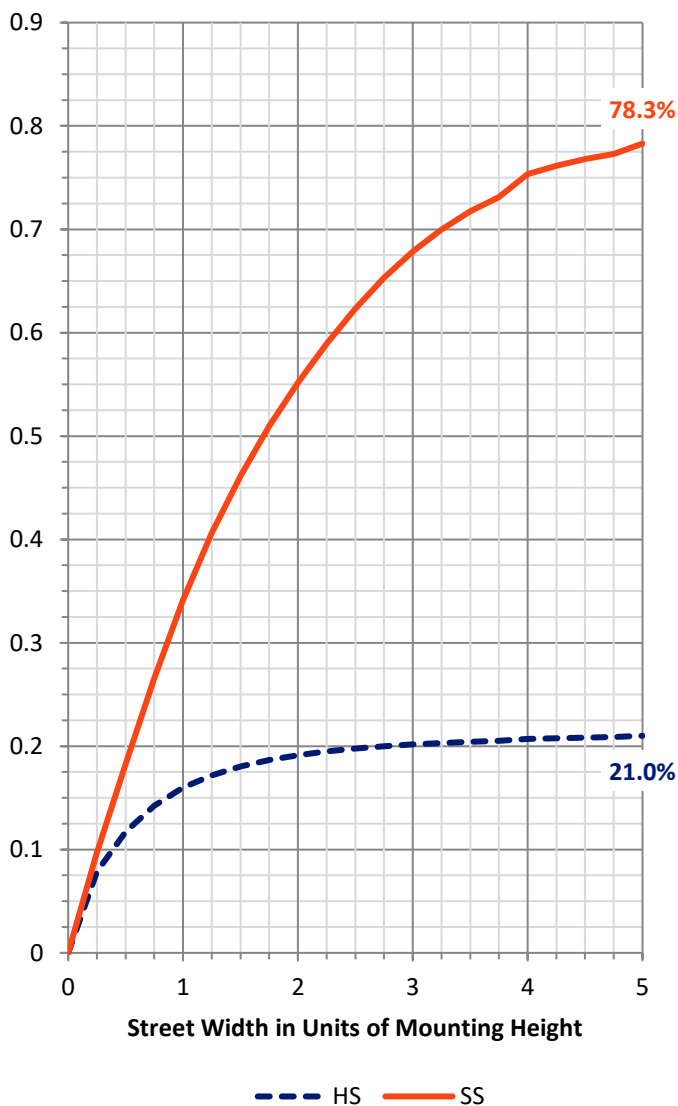
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.5	0.0	1022.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3782.5	0.0	3782.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	4805.0	0.0	4805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.4
10°-20°	182.6	3.8
20°-30°	301.1	6.3
30°-40°	451.1	9.4
40°-50°	655.7	13.6
50°-60°	915.9	19.1
60°-70°	1146.6	23.9
70°-80°	948.2	19.7
80°-90°	137.0	2.9
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°	4805.0	100.0
0°-180°	4805.0	100.0

Coefficient of Utilization



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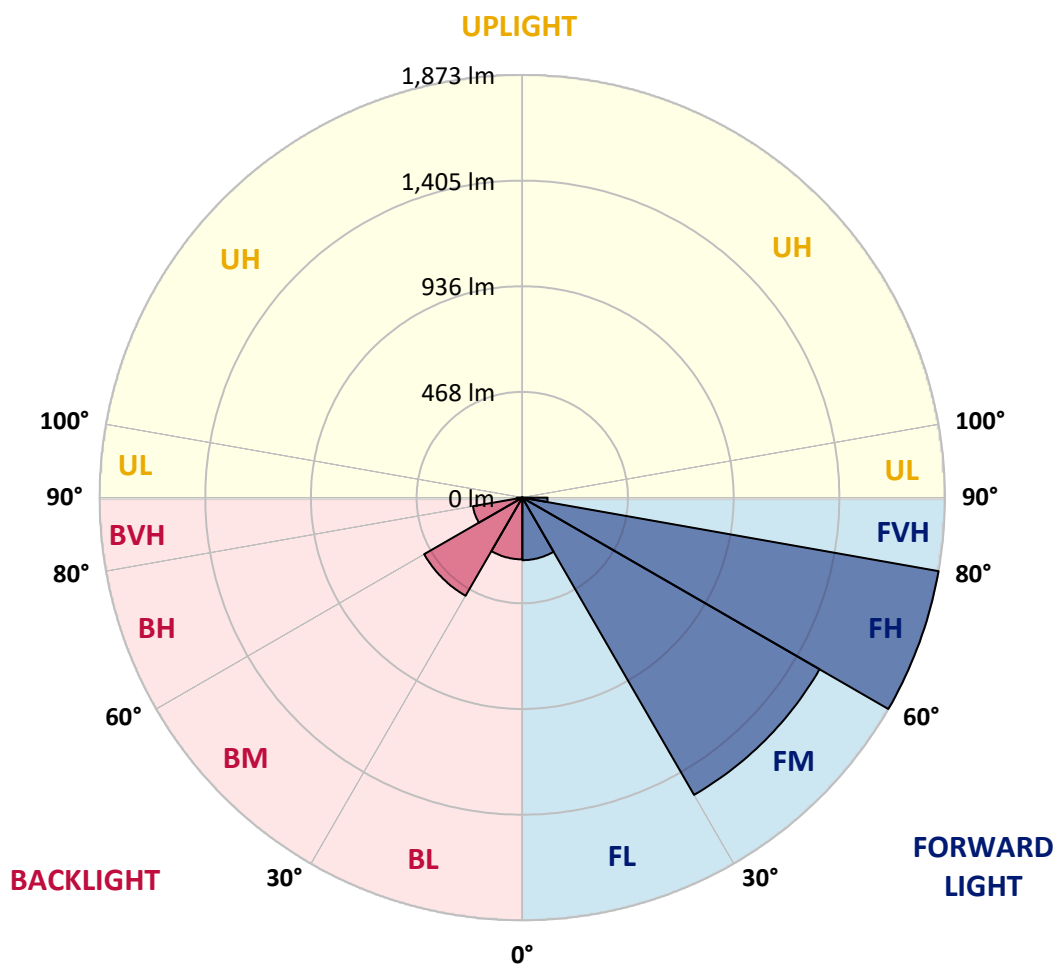
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.0	5.8			
FM (30°-60°)	1520.5	31.6			
FH (60°-80°)	1872.7	39.0			G2/5000
FVH (80°-90°)	112.2	2.3			G2/225
BL (0°-30°)	273.5	5.7	B1/500		
BM (30°-60°)	502.2	10.5	B1/1000		
BH (60°-80°)	222.1	4.6	B1/500		G1/500
BVH (80°-90°)	24.8	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	678.0	681.5	683.3	690.0	691.6	693.7	699.3	706.7	716.3	724.8	732.3
5°	621.6	626.9	630.1	635.9	647.4	648.4	663.4	680.4	699.8	717.9	732.8
7.5°	568.1	573.9	576.6	587.2	602.4	604.8	626.6	653.5	686.0	713.4	736.3
10°	527.9	530.8	536.6	544.6	562.7	564.3	592.8	628.7	670.8	711.3	742.1
12.5°	506.0	507.6	509.0	517.5	535.3	537.7	567.5	608.3	658.8	712.9	751.7
15°	509.2	509.8	503.9	505.5	519.9	523.3	552.9	594.7	651.4	716.9	766.1
17.5°	536.1	534.2	519.9	512.4	522.5	524.1	550.0	589.4	647.9	724.3	781.0
20°	578.4	575.8	551.0	534.5	540.4	541.7	559.5	593.3	651.4	736.6	804.2
22.5°	631.1	630.1	592.5	572.6	572.3	572.3	581.6	607.7	661.8	753.3	828.4
25°	704.9	699.3	650.3	624.5	617.3	616.8	615.7	631.4	675.1	771.2	857.1
27.5°	780.5	770.9	727.2	687.6	672.1	670.3	663.4	665.0	692.1	791.4	889.9
30°	848.4	842.2	801.2	757.3	739.0	734.7	715.5	706.7	720.6	827.9	942.1
32.5°	900.3	896.5	864.6	824.7	797.5	796.7	768.8	761.6	765.0	872.0	1001.7
35°	942.3	943.7	927.4	892.8	861.7	857.1	838.5	829.5	819.3	935.9	1076.8
37.5°	999.8	1002.7	1001.7	971.9	933.8	934.9	930.6	915.7	888.8	1007.3	1160.1
40°	1063.2	1065.3	1065.0	1053.6	1033.6	1034.7	1033.1	1016.1	975.9	1098.0	1252.7
42.5°	1150.8	1140.6	1114.3	1125.7	1137.4	1142.5	1153.4	1137.2	1082.1	1194.9	1339.8
45°	1248.7	1229.5	1169.9	1175.2	1218.6	1228.2	1288.4	1266.0	1197.3	1306.2	1442.2
47.5°	1310.5	1291.6	1241.3	1240.2	1297.7	1307.0	1413.5	1405.2	1302.2	1426.3	1567.3
50°	1365.6	1362.9	1306.2	1319.8	1376.0	1389.8	1549.8	1542.1	1406.8	1567.9	1703.6
52.5°	1447.3	1425.7	1380.5	1408.4	1482.7	1500.8	1685.0	1662.4	1502.9	1693.0	1835.9
55°	1484.0	1479.0	1476.3	1500.5	1602.5	1615.5	1816.5	1764.6	1584.9	1798.9	1936.6
57.5°	1582.3	1572.9	1599.3	1615.8	1743.6	1763.5	1953.9	1871.3	1656.8	1883.1	1985.5
60°	1709.5	1704.4	1728.7	1758.5	1901.2	1931.5	2110.4	1962.4	1714.6	1925.4	1958.6
62.5°	1899.6	1899.0	1894.5	1958.4	2124.5	2152.4	2290.1	2051.0	1723.6	1893.7	1819.7
65°	2172.1	2162.6	2123.2	2192.9	2402.4	2435.1	2477.2	2100.5	1669.0	1731.1	1532.2
67.5°	2457.2	2456.7	2424.8	2515.3	2801.4	2835.2	2711.2	2089.6	1517.6	1402.3	1088.2
70°	2693.6	2682.2	2722.9	2964.1	3311.2	3350.3	2915.9	1961.0	1208.8	926.1	646.6
72.5°	2750.3	2750.8	2835.5	3310.1	3800.7	3806.8	2989.6	1589.4	809.0	510.8	323.4
74°	2575.7	2580.2	2711.4	3327.4	3892.0	3864.3	2801.2	1249.2	547.0	333.5	233.2
75°	2351.0	2322.5	2512.3	3212.2	3797.2	3767.4	2580.5	1002.5	417.4	266.5	204.2
77.5°	1257.0	1286.0	1578.8	2397.1	3084.9	3050.6	1749.7	480.7	225.5	185.5	146.9
80°	447.5	493.5	693.7	1254.3	1977.8	1988.5	835.0	220.4	158.7	136.8	103.8
82.5°	182.6	187.7	297.9	556.6	1004.3	1013.9	341.0	131.0	113.4	94.2	62.0
85°	71.3	73.5	131.8	250.2	428.6	456.5	117.9	69.2	69.7	54.0	31.7
87.5°	24.0	27.2	54.0	83.3	145.6	142.7	34.3	20.5	25.0	23.4	9.8
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°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	736.0	741.1	744.5	748.3	751.7	752.8	752.0	754.4	754.7	754.9	755.2
5°	740.3	747.2	753.9	757.6	759.2	757.9	753.3	750.9	748.8	747.2	747.7
7.5°	746.1	756.0	762.1	763.7	759.4	753.3	742.1	733.4	727.8	724.0	723.8
10°	755.2	764.8	769.8	765.3	753.6	738.7	721.1	704.6	692.1	688.4	688.1
12.5°	766.6	777.6	777.3	764.0	743.5	716.9	688.4	669.2	652.2	643.7	647.1
15°	781.5	789.8	782.1	758.1	725.6	689.2	654.0	627.9	608.8	599.7	600.3
17.5°	798.8	806.0	785.5	747.7	700.6	653.8	613.0	588.3	573.1	566.5	565.9
20°	820.4	822.5	785.5	729.6	668.4	612.5	573.6	556.3	547.8	544.4	545.4
22.5°	843.6	839.3	781.3	704.1	626.1	569.4	543.3	535.6	531.3	530.8	531.3
25°	869.7	857.7	772.5	669.5	581.9	532.1	516.9	518.3	519.1	519.1	520.9
27.5°	901.6	877.6	757.9	625.8	530.3	497.5	493.3	502.6	506.8	507.6	509.0
30°	943.7	899.5	733.6	571.3	486.3	466.4	473.8	486.3	491.1	494.1	493.5
32.5°	993.7	923.4	700.9	516.7	450.9	444.5	453.6	466.4	471.7	473.3	471.2
35°	1052.5	950.6	657.8	465.6	420.1	423.8	434.4	438.4	443.2	443.2	444.3
37.5°	1115.9	972.4	605.1	418.7	396.1	409.7	417.4	413.7	411.5	408.9	410.2
40°	1180.3	988.6	536.6	372.4	372.1	395.0	397.2	386.5	378.0	375.3	374.0
42.5°	1236.5	998.8	474.9	336.5	349.5	380.7	382.3	365.2	351.6	343.7	341.0
45°	1302.7	1010.5	414.5	306.7	328.5	369.2	373.2	350.3	330.3	313.6	309.3
47.5°	1393.5	1037.1	366.8	283.5	313.3	362.0	367.6	338.1	311.7	289.9	286.4
50°	1496.0	1073.6	329.8	267.8	301.6	355.6	362.6	325.6	294.4	270.2	267.5
52.5°	1590.0	1093.3	297.9	253.7	290.2	343.9	355.9	316.5	277.4	250.5	248.1
55°	1641.3	1061.3	266.5	239.8	274.4	328.7	346.6	304.0	260.9	240.1	236.6
57.5°	1648.3	995.3	238.0	224.9	257.9	310.1	329.3	288.8	250.2	232.9	230.0
60°	1594.8	896.8	215.9	212.7	241.2	289.1	309.8	275.5	239.3	224.9	222.0
62.5°	1461.7	789.8	200.4	201.5	224.1	267.0	295.5	262.7	228.9	216.1	213.5
65°	1232.7	651.9	185.5	190.1	209.0	249.7	282.4	252.1	218.5	209.5	207.1
67.5°	856.3	470.6	173.3	178.1	194.6	232.1	267.3	240.6	206.8	202.0	198.3
70°	474.1	289.6	158.9	164.5	179.7	212.4	250.2	223.3	189.8	187.7	182.3
72.5°	249.2	184.5	142.7	148.8	159.4	187.1	224.1	204.4	173.0	164.0	157.1
74°	194.6	151.2	131.8	138.2	145.3	172.2	208.7	190.9	161.0	150.4	145.1
75°	169.6	134.7	122.4	130.7	137.1	162.1	196.7	181.3	154.4	144.3	139.5
77.5°	119.8	100.9	100.1	109.9	113.4	142.1	177.3	165.0	137.6	127.0	122.4
80°	84.1	75.6	79.3	85.4	90.2	125.6	164.5	142.7	112.9	100.4	98.8
82.5°	54.8	49.5	56.7	62.3	63.9	92.6	132.8	108.3	82.3	66.8	62.0
85°	25.3	24.8	32.5	31.7	31.4	45.3	78.8	63.4	47.4	35.4	33.3
87.5°	6.4	6.1	8.0	6.7	8.0	6.9	7.2	1.9	0.3	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)