

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: P651700

Luminaire Tested: **GALN-SA1A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3396.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

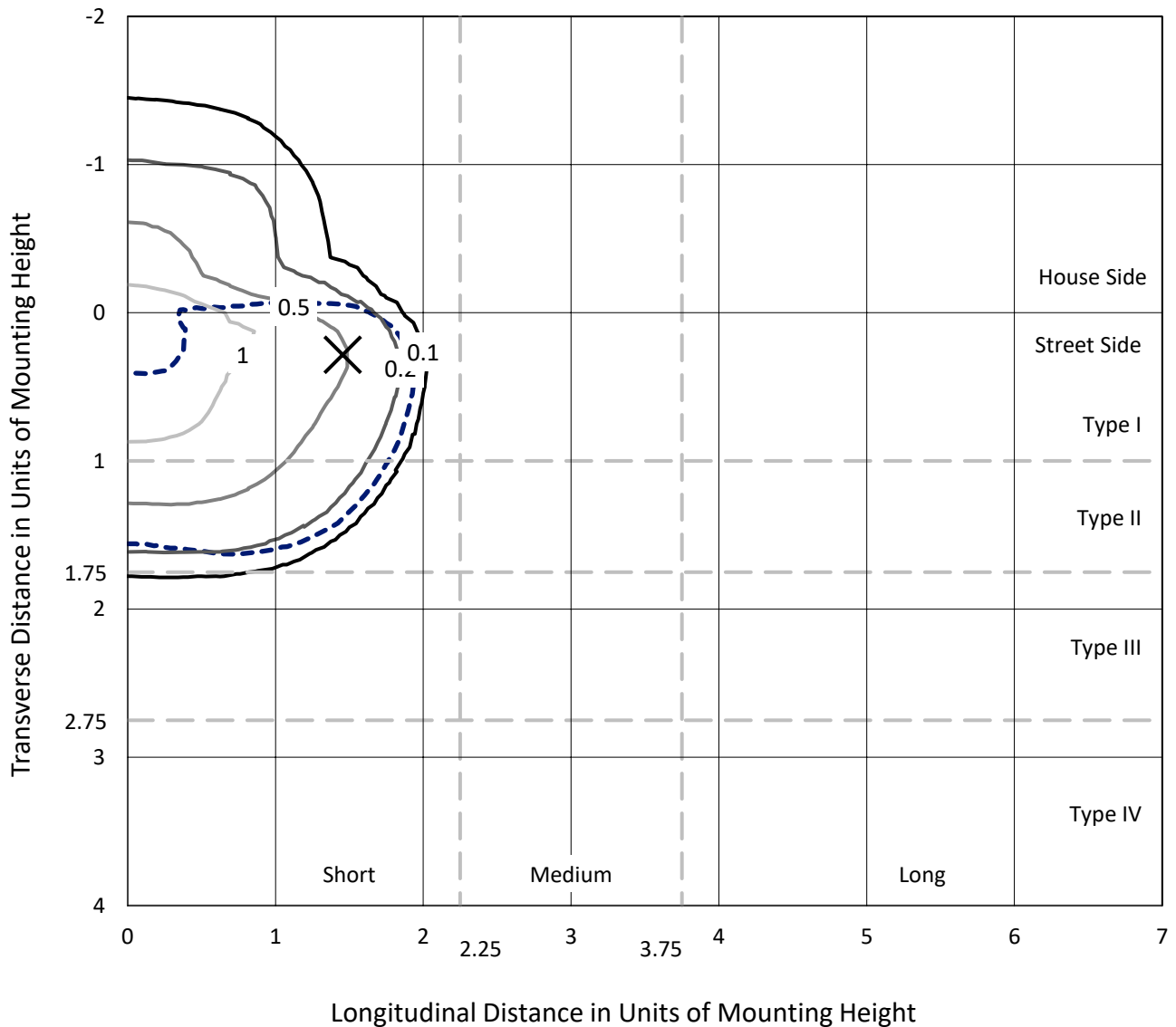
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

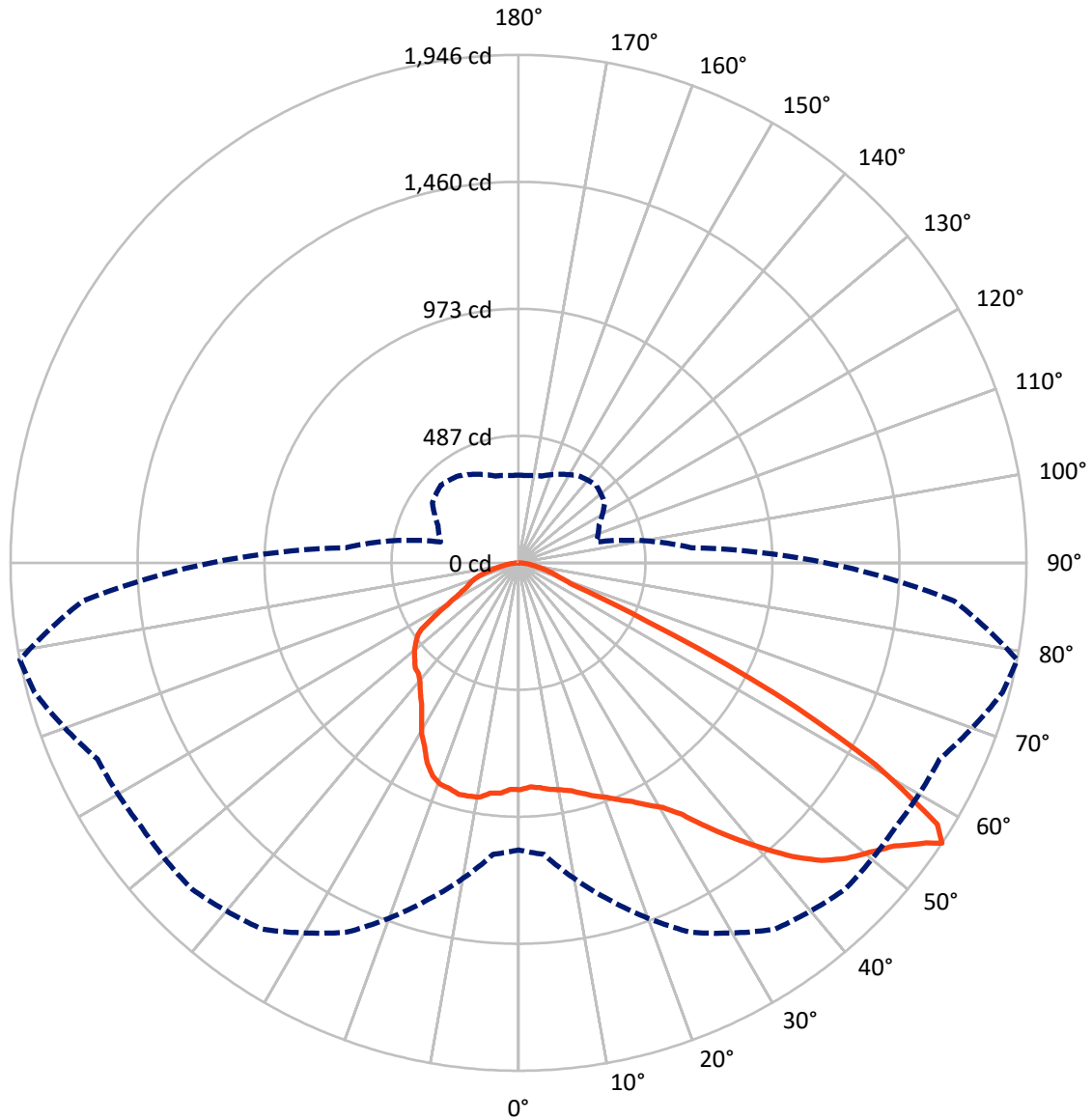
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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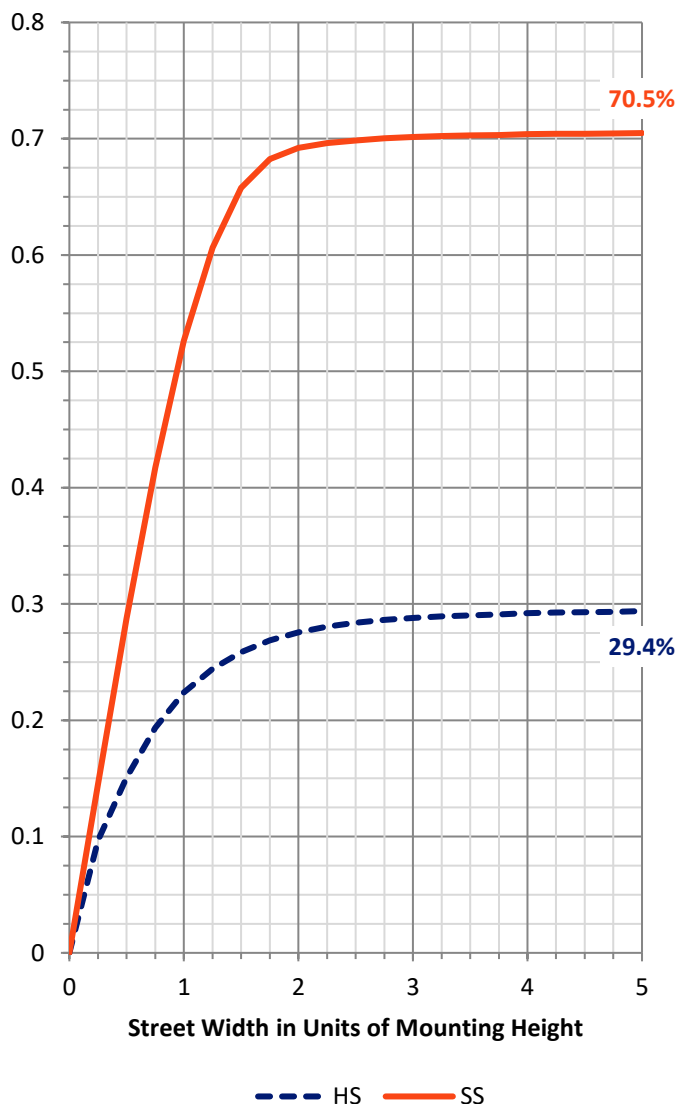
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1003.1	0.0	1003.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	2393.7	0.0	2393.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	3396.8	0.0	3396.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	2.3
10°-20°	216.3	6.4
20°-30°	370.0	10.9
30°-40°	567.0	16.7
40°-50°	766.3	22.6
50°-60°	880.1	25.9
60°-70°	401.2	11.8
70°-80°	98.9	2.9
80°-90°	18.0	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°	3396.8	100.0
0°-180°	3396.8	100.0

**Coefficient of Utilization**



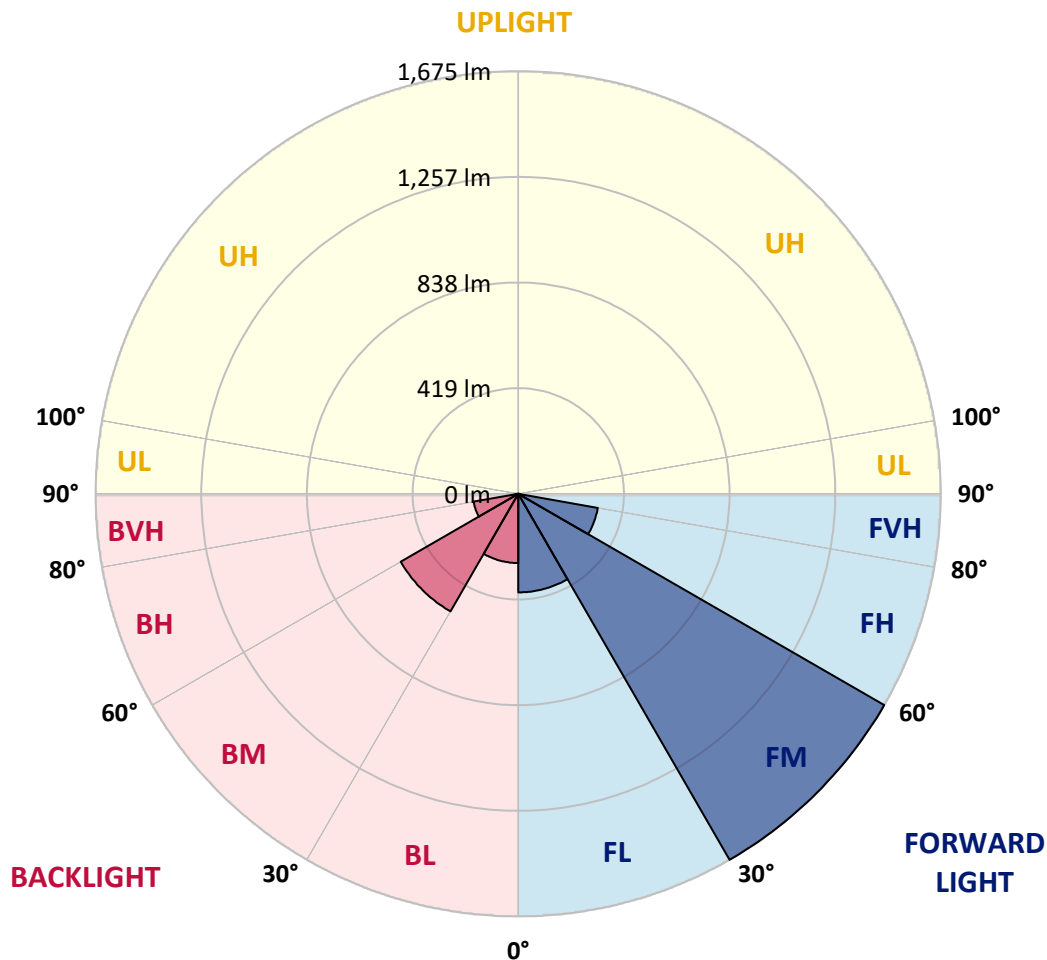
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.8	11.5			
FM (30°-60°)	1675.4	49.3			
FH (60°-80°)	320.2	9.4			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	274.4	8.1	B1/500		
BM (30°-60°)	538.1	15.8	B1/1000		
BH (60°-80°)	179.9	5.3	B1/500		G1/500
BVH (80°-90°)	10.8	0.3			G1/100
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°	55°	65°	75°	79°	85°
0°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	826.8	824.7	829.7	833.6	838.2	844.1	847.1	848.8	863.6	859.8	871.2
5°	809.0	803.5	807.4	810.3	818.3	825.5	833.6	846.3	859.8	865.7	879.7
7.5°	793.4	790.4	789.5	791.6	802.7	812.0	825.9	844.5	866.6	876.3	884.3
10°	767.6	763.3	769.7	783.6	786.6	806.1	822.2	848.8	867.8	884.7	908.4
12.5°	756.1	751.9	753.2	761.2	782.0	800.5	819.6	849.7	889.9	896.6	928.4
15°	774.3	770.1	771.4	769.3	789.1	798.9	828.9	866.6	905.1	916.5	950.3
17.5°	815.8	816.2	810.7	806.1	801.4	822.2	842.9	876.7	911.0	939.7	965.1
20°	894.9	880.9	869.9	843.7	836.5	845.4	871.6	904.2	935.1	958.8	987.6
22.5°	955.9	957.1	941.5	898.3	882.6	886.4	908.9	935.5	969.4	986.3	1019.3
25°	1044.3	1035.4	1018.5	984.2	949.1	952.0	968.6	992.6	1002.0	1013.8	1049.8
27.5°	1125.1	1127.6	1094.2	1062.0	1018.5	1010.0	1039.6	1043.8	1028.2	1050.7	1062.9
30°	1207.2	1205.1	1183.0	1145.4	1102.6	1104.4	1117.5	1096.7	1075.1	1087.4	1095.9
32.5°	1292.2	1268.1	1267.3	1233.4	1200.9	1185.2	1169.1	1179.3	1145.9	1148.4	1140.3
35°	1360.3	1363.8	1344.3	1320.2	1304.1	1276.6	1232.6	1250.7	1244.4	1241.5	1206.8
37.5°	1409.9	1396.7	1406.5	1398.4	1383.2	1349.0	1303.2	1320.6	1323.6	1337.9	1297.7
40°	1450.5	1445.0	1470.8	1475.0	1464.4	1390.4	1308.3	1359.9	1404.4	1435.7	1387.9
42.5°	1470.0	1481.8	1508.8	1541.5	1517.8	1438.6	1334.6	1390.0	1489.0	1538.5	1473.3
45°	1496.2	1480.9	1521.1	1580.8	1581.2	1479.2	1359.9	1430.6	1555.0	1626.9	1531.7
47.5°	1469.6	1477.1	1518.6	1594.4	1613.8	1522.0	1428.5	1488.1	1627.8	1691.7	1585.9
50°	1409.9	1425.1	1500.8	1579.6	1638.4	1567.3	1507.2	1550.4	1695.0	1743.7	1594.8
52.5°	1347.7	1356.1	1474.6	1591.0	1649.4	1625.7	1612.5	1636.2	1777.1	1802.5	1605.8
55°	1178.4	1218.6	1387.9	1585.9	1703.1	1731.0	1720.9	1755.6	1870.2	1895.6	1665.9
56°	1100.1	1121.3	1335.8	1562.2	1713.7	1769.5	1764.4	1780.1	1919.8	1946.4	1675.2
57.5°	955.5	957.1	1139.1	1457.3	1673.9	1781.0	1775.9	1788.1	1910.0	1891.8	1593.5
60°	597.9	624.1	775.1	1120.9	1423.4	1652.3	1681.1	1582.5	1610.4	1571.9	1239.8
62.5°	309.7	306.0	406.2	655.4	944.9	1183.0	1209.7	1205.1	1161.9	1105.7	809.9
65°	154.4	155.2	212.4	324.5	484.1	619.5	693.9	702.0	587.3	540.3	384.2
67.5°	112.1	116.4	152.7	198.5	228.1	255.2	312.7	306.8	232.3	220.8	204.8
70°	87.1	91.0	124.0	151.5	137.5	137.5	149.8	154.8	165.4	170.1	175.6
72.5°	63.5	66.4	94.8	104.5	90.2	96.9	112.1	124.0	135.0	136.7	143.1
75°	43.6	46.1	62.2	57.5	54.2	66.9	82.1	93.1	101.1	105.4	109.2
77.5°	28.3	29.2	35.6	30.0	34.7	43.1	53.3	62.7	70.6	74.0	74.9
80°	12.7	14.0	15.2	19.0	24.1	30.9	38.1	45.7	50.8	52.1	54.6
82.5°	7.2	7.2	9.3	13.5	17.7	22.5	27.5	33.0	38.9	40.2	39.8
85°	3.8	3.8	5.5	8.1	11.0	13.1	12.7	13.1	14.0	16.1	15.6
87.5°	1.3	1.3	1.7	1.7	2.1	2.5	2.1	2.9	3.8	3.8	3.8
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°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	867.8	871.6	866.6	877.6	877.6	875.5	864.9	868.2	870.8	870.8	872.9
5°	884.3	883.0	886.4	873.4	865.3	862.4	845.0	836.5	829.3	828.9	822.6
7.5°	893.6	890.3	889.0	879.3	843.7	822.2	784.9	763.3	758.7	742.2	748.5
10°	908.4	914.8	908.4	855.5	806.1	756.6	720.1	686.8	673.6	663.0	656.7
12.5°	938.9	935.9	899.1	827.6	758.2	699.5	645.3	610.1	597.0	587.7	586.8
15°	964.7	949.9	893.6	783.6	683.8	621.2	576.8	551.8	545.8	546.6	550.5
17.5°	973.6	963.4	864.9	738.0	628.3	554.7	534.0	530.2	535.7	542.0	543.7
20°	987.6	971.5	853.0	675.7	559.8	513.3	512.0	525.5	535.7	545.0	546.2
22.5°	1016.8	976.1	814.5	617.0	512.8	501.0	513.3	524.7	540.3	547.9	541.2
25°	1025.3	966.0	760.3	546.2	483.2	493.3	506.5	522.2	533.1	537.4	540.3
27.5°	1032.4	950.3	687.2	499.3	473.9	492.9	506.5	519.6	525.5	529.3	532.7
30°	1052.8	945.7	623.7	468.0	468.0	484.5	501.8	505.2	513.3	517.9	523.9
32.5°	1062.9	913.5	558.5	448.1	462.0	488.7	490.0	496.4	496.8	500.6	494.3
35°	1089.5	890.7	498.0	433.7	464.6	484.5	490.8	487.0	466.3	456.2	458.3
37.5°	1109.0	879.3	454.5	432.0	465.0	489.1	492.5	463.7	442.2	425.2	429.5
40°	1161.5	850.9	421.4	429.1	468.9	494.3	484.9	453.6	414.7	397.3	394.3
42.5°	1201.7	830.6	400.7	425.6	471.8	501.4	481.1	433.3	393.5	377.4	381.6
45°	1248.2	825.9	389.7	426.6	476.8	505.2	476.4	417.6	375.3	368.9	367.7
47.5°	1264.7	792.6	377.9	419.3	475.6	503.9	460.8	405.8	368.5	369.4	372.8
50°	1237.2	758.2	368.9	404.5	467.2	492.5	436.2	390.1	364.7	375.3	381.2
52.5°	1202.1	723.1	350.8	384.6	449.8	474.7	424.8	389.3	361.0	357.5	358.9
55°	1212.7	694.3	325.4	357.5	421.8	441.8	412.1	381.2	351.6	338.9	343.1
56°	1178.4	664.7	308.9	340.6	402.8	420.6	405.8	374.1	344.0	335.6	335.6
57.5°	1081.5	565.3	287.3	313.5	362.6	383.7	393.5	369.8	335.6	320.8	321.2
60°	797.6	402.0	257.7	276.3	300.4	317.3	362.6	357.9	314.4	304.2	300.4
62.5°	491.6	293.7	236.5	243.7	256.0	270.0	316.5	324.1	292.0	281.0	278.5
65°	275.4	224.7	220.4	223.5	229.3	236.5	262.7	279.7	257.7	240.8	239.9
67.5°	201.4	201.0	204.4	206.9	209.4	209.4	215.8	222.5	219.6	206.0	204.8
70°	179.0	180.2	182.8	183.3	184.1	181.1	176.0	173.9	177.3	168.8	167.1
72.5°	147.7	151.9	154.8	155.2	150.6	146.8	140.0	132.9	130.4	128.7	128.2
75°	113.4	116.4	117.7	117.2	115.6	110.0	102.0	94.8	90.2	85.0	87.5
77.5°	76.6	80.8	82.9	82.9	80.4	71.9	68.1	62.7	57.9	52.5	53.3
80°	53.7	56.7	60.0	59.6	55.4	51.2	45.7	40.6	36.8	32.5	32.1
82.5°	40.2	41.9	43.6	42.7	39.8	35.6	31.7	27.1	22.9	19.8	19.8
85°	14.4	15.6	19.0	19.8	21.6	21.6	18.2	15.2	12.3	10.2	10.2
87.5°	4.2	4.2	4.6	4.6	4.2	4.6	3.8	4.2	4.6	2.9	2.9
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)