

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: P594509

Luminaire Tested: **ISS-PA1A-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-830-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3370 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

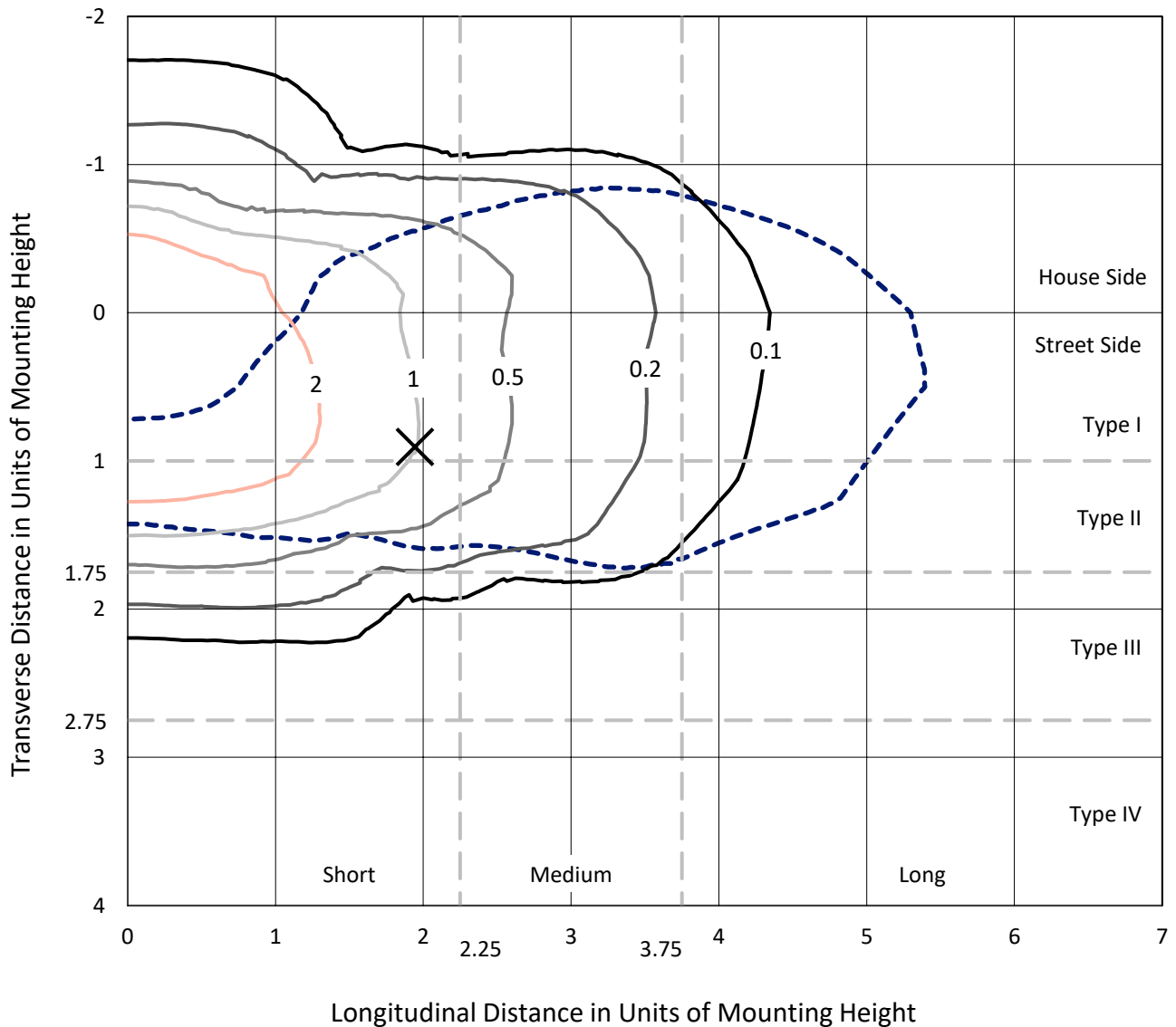
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594509
 CATALOG NUMBER: ISS-PA1A-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

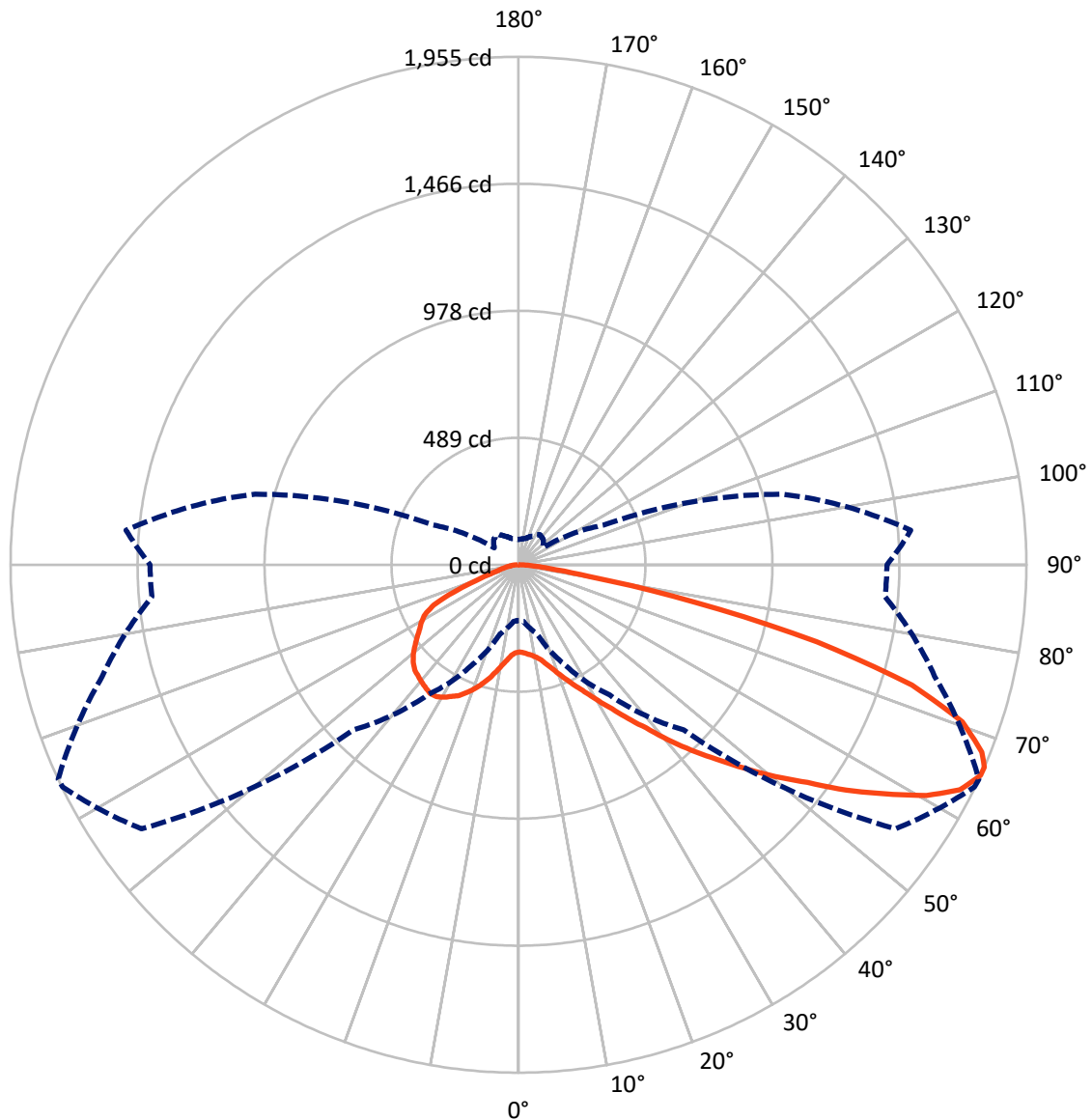
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P594509
CATALOG NUMBER: ISS-PA1A-830-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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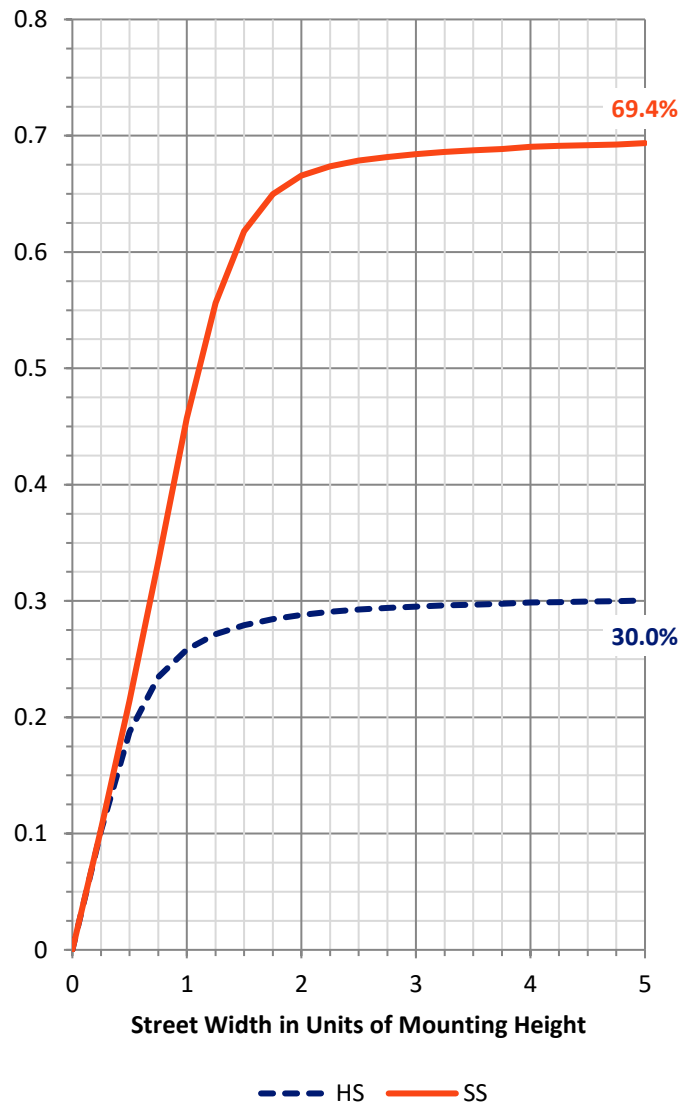
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.3	0.0	1023.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2346.7	0.0	2346.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	3370.0	0.0	3370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.0
10°-20°	119.4	3.5
20°-30°	233.9	6.9
30°-40°	382.2	11.3
40°-50°	606.7	18.0
50°-60°	780.3	23.2
60°-70°	703.7	20.9
70°-80°	436.4	13.0
80°-90°	73.1	2.2
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°	3370.0	100.0
0°-180°	3370.0	100.0

Coefficient of Utilization



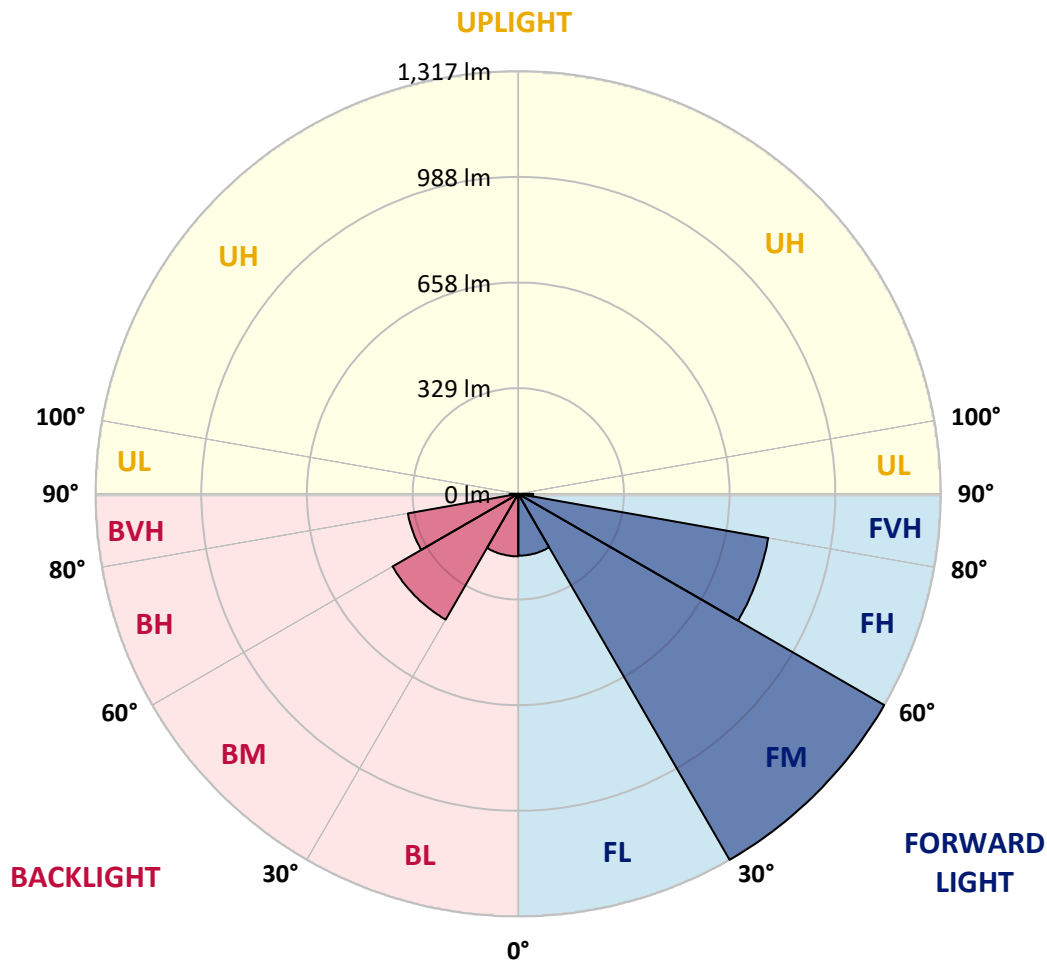
REPORT NUMBER: P594509
 CATALOG NUMBER: ISS-PA1A-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.7	5.7			
FM (30°-60°)	1316.8	39.1			
FH (60°-80°)	790.9	23.5			G1/1800
FVH (80°-90°)	46.3	1.4			G1/100
BL (0°-30°)	194.9	5.8	B1/500		
BM (30°-60°)	452.4	13.4	B1/1000		
BH (60°-80°)	349.1	10.4	B1/500		G1/500
BVH (80°-90°)	26.9	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-G1

Type II Short





REPORT NUMBER: P594509
 CATALOG NUMBER: ISS-PA1A-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9
2.5°	336.7	337.5	338.4	336.7	338.4	339.2	337.5	337.5	338.4	336.7	336.7
5°	334.3	335.1	336.7	337.5	340.8	342.4	343.3	343.3	344.1	343.3	344.1
7.5°	327.7	327.7	331.0	332.6	337.5	343.3	346.5	351.4	351.4	352.3	354.7
10°	334.3	334.3	336.7	339.2	343.3	348.2	353.1	358.8	360.4	366.1	369.4
12.5°	344.1	345.7	349.0	352.3	357.2	362.9	367.0	372.7	373.5	379.2	385.8
15°	360.4	362.1	363.7	367.8	374.3	381.7	389.0	393.1	394.8	398.0	402.9
17.5°	384.9	386.6	387.4	389.9	394.8	404.6	415.2	418.5	420.1	420.1	424.2
20°	426.6	425.8	424.2	419.3	419.3	428.3	443.0	448.7	450.3	447.1	444.6
22.5°	474.8	474.0	467.5	461.8	457.7	459.3	474.0	483.8	483.0	476.5	466.7
25°	537.8	539.4	528.8	514.1	501.8	498.6	507.5	517.3	519.0	506.7	490.4
27.5°	613.0	610.5	604.8	581.1	557.4	542.7	547.6	558.2	559.0	546.0	519.8
30°	701.2	697.2	682.4	657.9	621.1	600.7	596.6	605.6	608.1	586.0	548.4
32.5°	799.3	795.2	776.4	738.8	698.8	664.5	651.4	663.6	662.0	636.7	584.4
35°	917.8	917.0	882.7	836.1	785.4	739.7	721.7	721.7	726.6	689.0	630.1
37.5°	1076.4	1082.9	1032.2	959.5	888.4	827.1	796.9	795.2	796.0	755.2	681.6
40°	1219.4	1217.0	1187.5	1119.7	1015.9	937.4	892.5	882.7	885.1	832.8	748.6
42.5°	1302.0	1304.4	1297.0	1267.6	1176.9	1078.0	1001.2	975.0	975.9	910.5	812.4
45°	1353.4	1355.9	1355.1	1369.8	1333.8	1240.7	1131.1	1070.7	1067.4	998.7	887.6
47.5°	1382.9	1384.5	1395.1	1425.4	1454.8	1433.5	1275.0	1176.9	1170.4	1081.3	962.8
50°	1350.2	1351.0	1393.5	1465.4	1537.3	1601.9	1422.1	1282.3	1280.7	1172.8	1036.3
52.5°	1178.5	1193.3	1287.2	1437.6	1598.6	1721.2	1592.1	1406.6	1392.7	1259.5	1109.9
55°	962.0	968.5	1076.4	1267.6	1587.2	1794.8	1720.4	1540.6	1530.8	1355.9	1181.8
57.5°	751.1	757.6	885.9	1045.3	1412.3	1790.7	1811.1	1685.3	1663.2	1440.1	1253.7
60°	484.7	505.1	653.8	850.0	1143.4	1666.5	1856.9	1824.2	1803.8	1523.4	1315.0
62.5°	329.4	332.6	425.8	630.1	855.7	1354.3	1853.6	1910.0	1906.8	1606.8	1376.3
65°	214.1	219.0	275.4	426.6	612.2	899.0	1771.9	1951.7	1955.0	1658.3	1416.4
66°	181.4	184.7	228.0	358.8	536.1	712.7	1700.0	1948.4	1955.0	1682.0	1428.6
67.5°	157.7	160.2	182.3	264.8	438.1	512.4	1512.8	1905.1	1923.9	1704.1	1444.2
70°	135.7	138.9	159.4	180.6	313.0	299.1	957.9	1794.0	1812.8	1714.7	1454.0
72.5°	112.0	114.4	134.9	163.5	227.2	201.1	422.5	1535.7	1583.1	1675.5	1438.4
75°	88.3	89.9	108.7	136.5	174.1	156.9	183.9	1126.2	1185.9	1476.9	1378.0
77.5°	68.7	69.5	84.2	106.2	159.4	121.8	113.6	548.4	693.9	1140.9	1213.7
80°	47.4	49.0	62.1	80.1	116.9	96.4	76.0	214.1	272.2	757.6	920.3
82.5°	31.1	31.9	42.5	60.5	77.6	92.4	49.9	103.8	114.4	349.0	398.8
85°	21.2	21.2	30.2	37.6	53.1	61.3	32.7	54.8	59.7	132.4	48.2
87.5°	10.6	10.6	14.7	19.6	25.3	23.7	19.6	19.6	19.6	43.3	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594509
 CATALOG NUMBER: ISS-PA1A-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9	335.9
2.5°	337.5	337.5	338.4	339.2	340.0	340.0	340.8	340.8	340.0	340.8	341.6
5°	344.9	345.7	347.4	349.8	353.9	358.0	362.1	364.5	367.0	367.8	366.1
7.5°	356.3	358.0	363.7	370.2	376.8	386.6	392.3	395.6	397.2	398.8	397.2
10°	371.1	374.3	382.5	393.9	405.4	417.6	424.2	429.1	429.9	431.5	429.9
12.5°	388.2	393.9	406.2	422.5	436.4	448.7	453.6	450.3	443.0	439.7	438.9
15°	408.6	414.4	431.5	452.0	468.3	474.0	466.7	456.1	447.9	447.1	446.2
17.5°	426.6	434.8	458.5	479.8	495.3	489.6	469.9	463.4	461.0	464.2	463.4
20°	449.5	456.1	479.8	505.9	514.1	492.0	478.1	474.0	471.6	471.6	469.9
22.5°	468.3	473.2	501.8	530.4	525.5	493.6	483.8	475.7	467.5	466.7	464.2
25°	490.4	492.0	522.3	553.3	527.2	495.3	478.1	464.2	456.1	453.6	454.4
27.5°	510.8	514.9	541.1	568.8	523.1	486.3	458.5	440.5	428.3	427.4	427.4
30°	537.0	537.0	560.7	586.0	514.1	463.4	426.6	400.5	390.7	389.9	388.2
32.5°	566.4	561.5	584.4	598.3	494.5	432.3	383.3	353.9	338.4	335.1	332.6
35°	607.3	596.6	613.0	600.7	474.8	388.2	328.6	295.0	283.6	278.7	278.7
37.5°	654.7	639.1	656.3	593.4	444.6	336.7	271.3	246.0	233.7	226.4	228.8
40°	710.2	690.6	700.4	585.2	411.9	279.5	223.9	208.4	193.7	183.9	183.9
42.5°	775.6	742.9	750.3	577.0	365.3	229.7	193.7	183.1	171.6	161.8	164.3
45°	838.5	806.7	799.3	568.8	316.3	196.2	181.4	174.1	163.5	152.0	152.0
47.5°	911.3	870.4	842.6	554.1	268.1	185.5	184.7	174.1	153.7	137.3	135.7
50°	979.9	942.3	881.9	532.1	241.1	194.5	183.9	158.6	138.9	128.3	127.5
52.5°	1052.7	1013.4	913.7	505.1	227.2	190.4	169.2	145.5	130.8	120.1	117.7
55°	1124.6	1104.2	942.3	478.9	205.1	177.4	156.9	137.3	121.8	112.0	110.3
57.5°	1206.3	1198.2	966.9	452.8	170.8	161.0	147.9	131.6	116.9	109.5	108.7
60°	1277.4	1306.0	996.3	433.2	145.5	148.7	143.8	130.8	120.1	112.0	112.0
62.5°	1352.6	1409.8	1022.4	407.8	126.7	141.4	144.7	130.0	116.1	108.7	108.7
65°	1418.0	1516.1	1049.4	361.2	113.6	135.7	142.2	121.0	104.6	98.9	97.3
66°	1445.8	1546.3	1057.6	332.6	108.7	131.6	138.1	116.1	99.7	94.8	94.0
67.5°	1478.5	1593.7	1067.4	271.3	101.3	122.6	129.1	108.7	91.5	88.3	86.6
70°	1524.3	1603.5	1061.7	177.4	88.3	105.4	115.2	97.3	81.7	79.3	76.8
72.5°	1529.2	1536.5	1004.5	112.0	76.8	90.7	101.3	87.5	71.9	69.5	67.8
75°	1448.2	1361.6	850.0	80.1	67.8	80.1	89.1	76.0	59.7	56.4	54.8
77.5°	1236.6	1080.5	611.3	59.7	58.8	68.7	74.4	66.2	49.9	47.4	46.6
80°	868.0	733.1	306.5	45.0	46.6	57.2	62.1	55.6	41.7	38.4	36.8
82.5°	351.4	311.4	105.4	33.5	35.1	43.3	53.1	45.8	31.9	27.8	24.5
85°	40.0	67.8	45.8	22.9	23.7	29.4	36.0	27.8	18.8	15.5	13.1
87.5°	8.2	14.7	16.3	9.0	8.2	11.4	16.3	9.8	6.5	2.5	3.3
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)