

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: P594498

Luminaire Tested: **ISS-PA1A-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-827-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

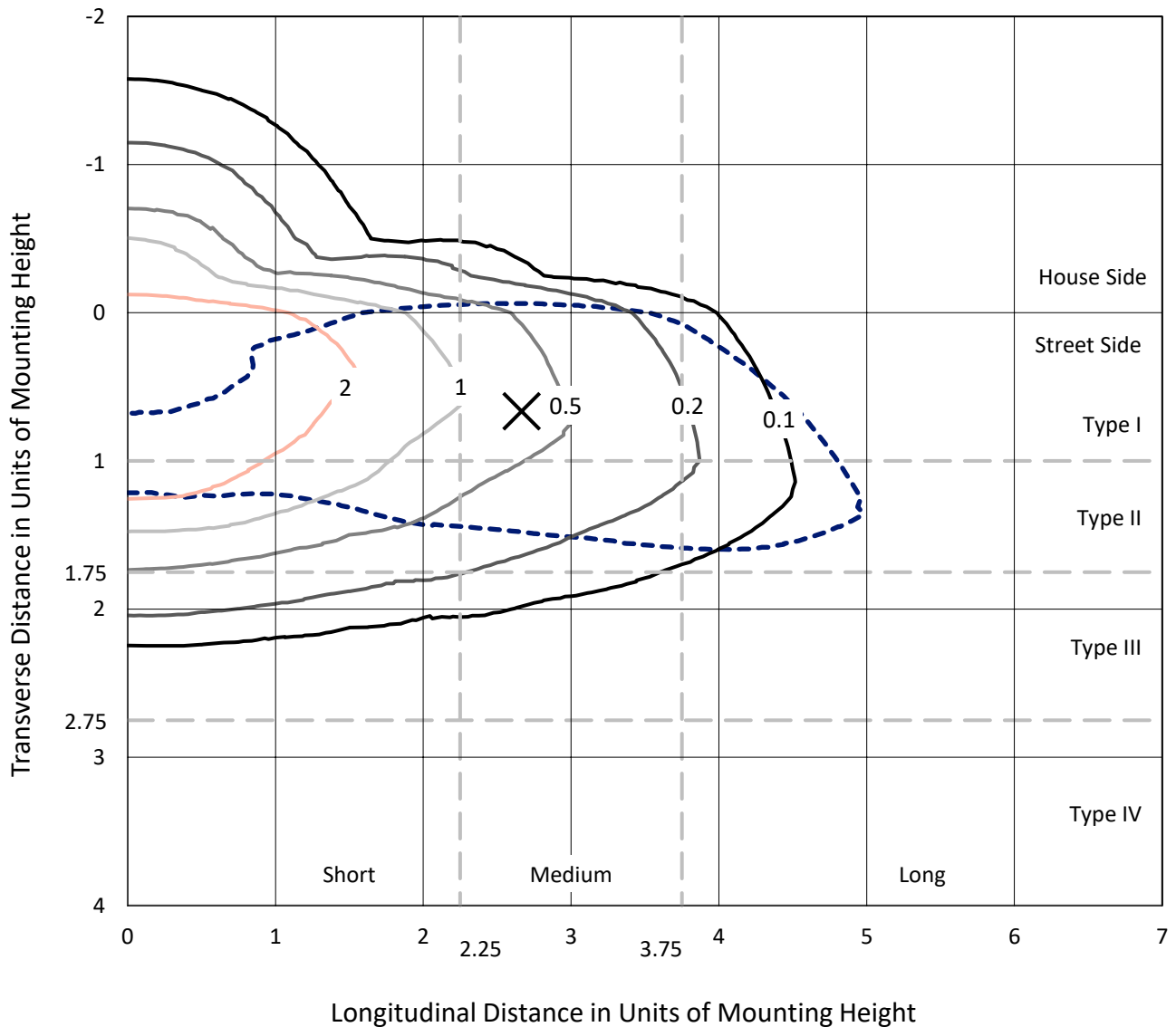
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594498
 CATALOG NUMBER: ISS-PA1A-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

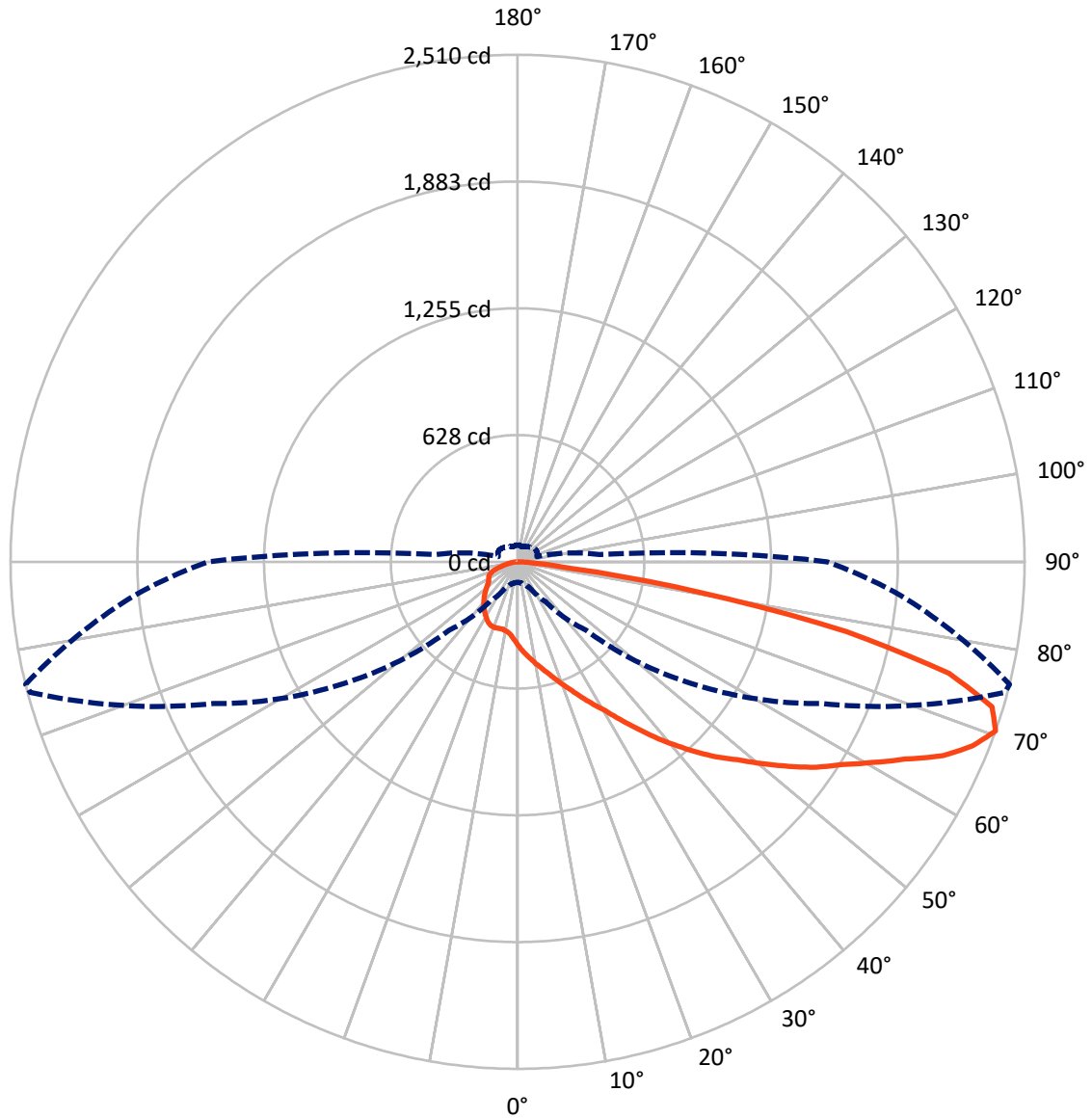
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

REPORT NUMBER: P594498
CATALOG NUMBER: ISS-PA1A-827-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P594498
 CATALOG NUMBER: ISS-PA1A-827-U-T2R

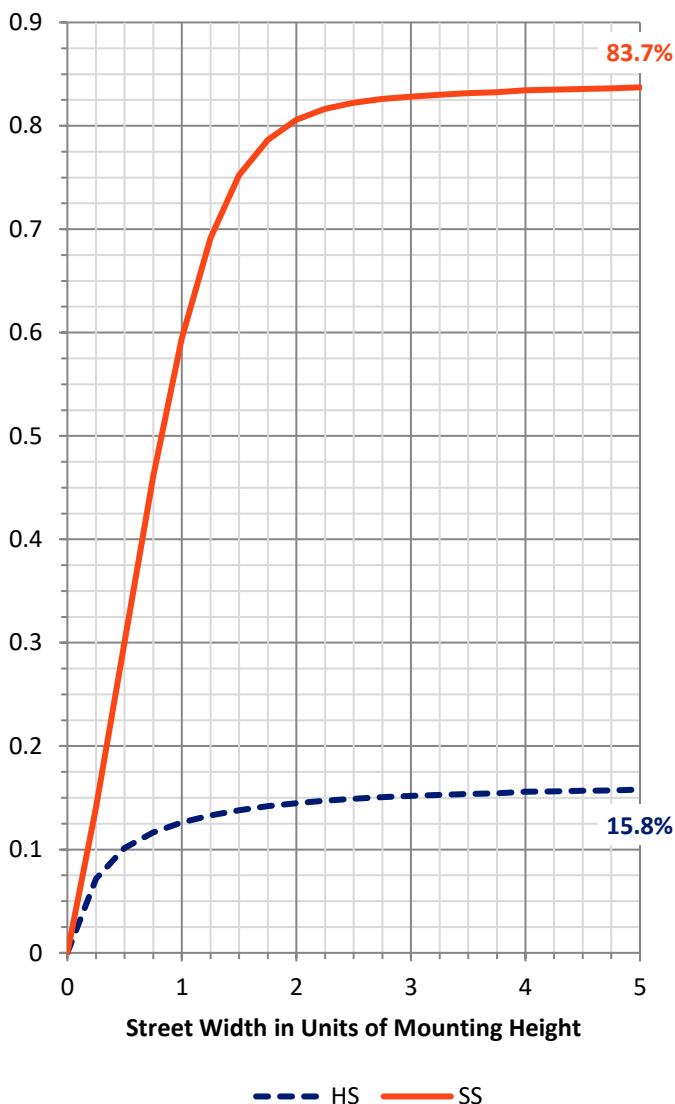
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.5	0.0	506.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	2651.5	0.0	2651.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	3158.0	0.0	3158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.3
10°-20°	133.2	4.2
20°-30°	245.5	7.8
30°-40°	411.4	13.0
40°-50°	584.6	18.5
50°-60°	674.9	21.4
60°-70°	620.4	19.6
70°-80°	391.2	12.4
80°-90°	56.3	1.8
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°	3158.0	100.0
0°-180°	3158.0	100.0

Coefficient of Utilization



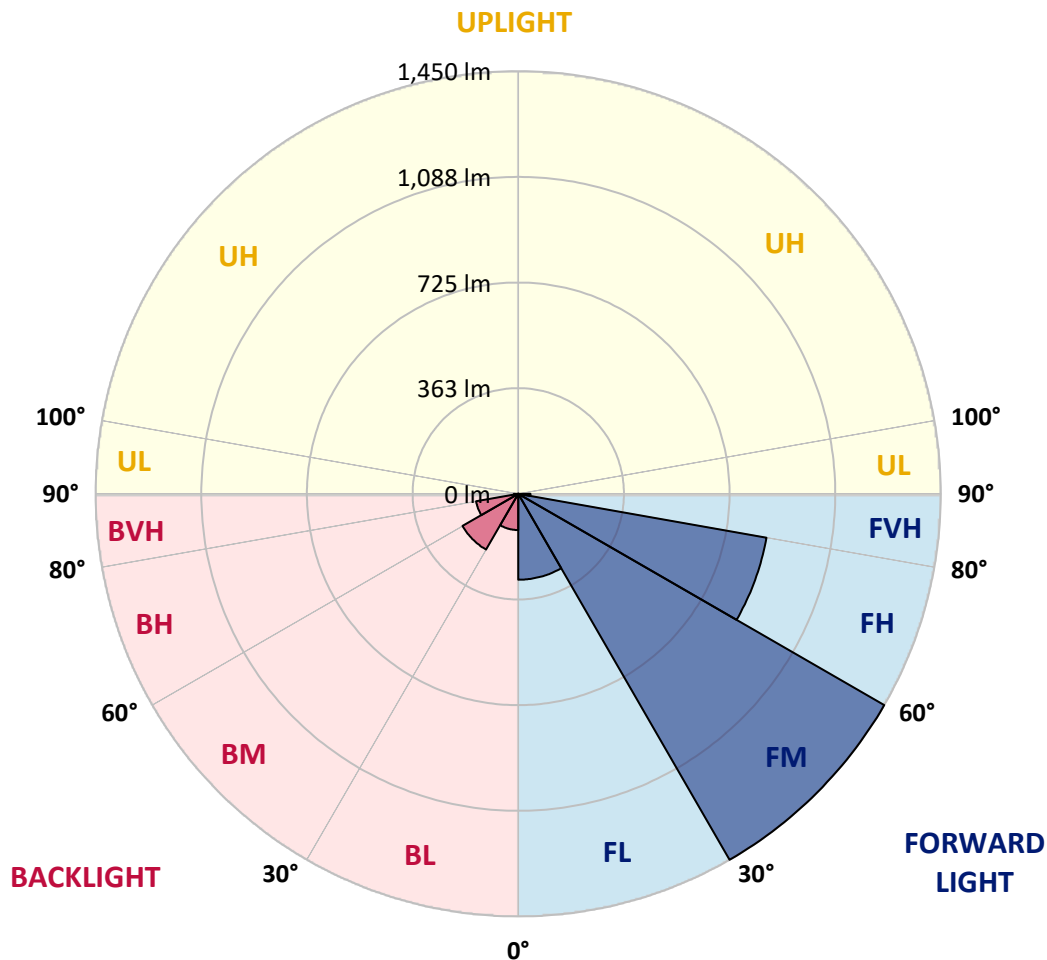
REPORT NUMBER: P594498
 CATALOG NUMBER: ISS-PA1A-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	294.8	9.3			
FM (30°-60°)	1450.1	45.9			
FH (60°-80°)	864.9	27.4			G1/1800
FVH (80°-90°)	41.7	1.3			G1/100
BL (0°-30°)	124.3	3.9	B1/500		
BM (30°-60°)	220.8	7.0	B1/1000		
BH (60°-80°)	146.8	4.6	B1/500		G1/500
BVH (80°-90°)	14.6	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-G1

Type II Medium





REPORT NUMBER: P594498
 CATALOG NUMBER: ISS-PA1A-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3
2.5°	498.7	497.9	495.6	491.8	488.8	479.7	467.5	456.9	440.9	439.4	423.4
5°	543.5	540.5	540.5	536.7	532.9	523.0	507.8	488.8	466.0	464.5	434.0
7.5°	564.8	565.6	564.0	561.0	561.8	553.4	539.7	520.7	489.5	488.0	448.5
10°	595.2	594.4	591.4	589.1	588.4	580.8	568.6	551.1	518.4	515.4	465.2
12.5°	624.8	622.6	623.3	622.6	621.0	613.4	602.0	584.6	544.3	542.7	485.7
15°	641.6	640.8	646.1	647.6	653.7	646.9	637.0	617.2	580.8	574.7	510.1
17.5°	652.2	651.4	656.8	668.9	680.3	680.3	677.3	656.0	615.7	611.2	537.4
20°	670.5	673.5	682.6	692.5	709.2	712.3	711.5	702.4	656.0	651.4	567.8
22.5°	706.9	705.4	713.0	728.2	743.4	748.0	748.7	748.7	702.4	694.0	599.0
25°	785.2	781.4	775.4	773.8	792.1	791.3	789.0	794.4	751.0	744.9	634.7
27.5°	934.2	925.9	902.3	855.2	844.5	848.3	836.9	837.7	806.5	798.9	665.1
30°	1075.6	1071.8	1049.8	992.8	932.7	911.4	891.7	883.3	868.1	855.2	697.8
32.5°	1203.3	1204.1	1177.5	1115.1	1053.6	986.7	952.5	935.0	941.1	929.7	742.7
35°	1290.0	1283.1	1266.4	1224.6	1157.7	1093.9	1028.5	989.7	1022.4	1009.5	787.5
37.5°	1340.9	1335.6	1321.9	1292.3	1258.8	1197.2	1114.4	1055.1	1118.9	1099.9	844.5
40°	1366.8	1359.2	1345.5	1333.3	1317.3	1283.9	1210.9	1129.6	1207.1	1190.4	900.8
42.5°	1369.8	1364.5	1356.9	1350.8	1356.1	1351.5	1305.2	1216.2	1299.9	1281.6	965.4
45°	1367.5	1371.3	1362.2	1351.5	1362.2	1401.0	1401.0	1302.9	1391.8	1378.2	1027.0
47.5°	1369.0	1365.2	1362.2	1359.2	1360.7	1413.9	1467.1	1384.2	1480.0	1464.1	1099.2
50°	1305.9	1311.3	1337.1	1348.5	1355.3	1416.9	1520.3	1472.4	1589.5	1569.7	1179.8
52.5°	1105.3	1108.3	1226.1	1311.3	1338.6	1404.8	1557.6	1570.5	1697.4	1682.2	1266.4
55°	851.4	867.3	979.1	1187.4	1300.6	1384.2	1569.0	1634.3	1807.6	1795.5	1353.8
57.5°	700.9	703.1	767.8	954.0	1180.5	1365.2	1580.4	1692.9	1906.5	1892.8	1445.0
60°	581.5	576.2	615.7	735.8	980.6	1289.2	1582.6	1739.2	2021.2	2016.7	1539.3
62.5°	427.2	433.3	471.3	573.2	767.0	1134.9	1571.2	1778.8	2158.1	2152.0	1644.2
65°	262.3	269.9	316.2	409.7	580.8	900.8	1496.7	1799.3	2301.7	2315.4	1757.5
67.5°	139.1	144.4	171.8	247.8	398.3	686.4	1317.3	1773.4	2423.4	2429.4	1866.2
70°	101.9	102.6	111.7	139.9	240.2	477.4	1049.0	1660.9	2497.9	2510.0	1901.9
72.5°	88.9	89.7	93.5	100.3	130.7	291.1	751.8	1464.8	2466.7	2456.0	1841.8
75°	80.6	80.6	83.6	85.9	95.8	161.2	460.7	1198.8	2228.8	2205.2	1570.5
77.5°	69.2	69.2	72.2	75.3	82.9	104.1	241.0	888.6	1704.3	1664.0	1074.1
80°	55.5	55.5	59.3	63.1	73.0	78.3	117.8	594.4	974.5	915.2	488.8
82.5°	38.0	41.0	47.9	52.5	60.8	55.5	69.2	256.9	307.1	266.1	110.2
85°	22.8	24.3	34.2	39.5	45.6	29.6	42.6	98.8	92.0	80.6	25.1
87.5°	2.3	3.8	13.7	16.0	16.0	8.4	18.2	23.6	26.6	27.4	6.1
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: P594498
 CATALOG NUMBER: ISS-PA1A-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3
2.5°	414.3	405.2	387.7	371.7	355.8	345.1	334.5	330.7	325.3	321.5	324.6
5°	418.1	399.1	365.6	337.5	318.5	304.1	297.2	293.4	290.4	289.6	288.9
7.5°	422.6	394.5	349.7	318.5	300.3	293.4	291.9	291.9	291.9	292.7	293.4
10°	432.5	396.0	341.3	307.9	298.0	296.5	297.2	300.3	300.3	301.0	301.0
12.5°	443.9	399.8	335.2	306.3	300.3	301.0	301.8	303.3	303.3	305.6	304.8
15°	460.7	407.4	334.5	307.9	302.5	301.0	301.0	300.3	300.3	300.3	301.8
17.5°	481.9	418.1	335.2	307.9	300.3	297.2	294.9	292.7	289.6	291.1	289.6
20°	503.2	431.0	335.2	304.1	294.2	286.6	279.7	275.9	272.1	271.4	272.1
22.5°	529.8	446.2	331.4	295.7	281.3	270.6	260.7	255.4	249.3	247.0	245.5
25°	552.6	458.4	323.8	283.5	266.8	251.6	238.7	229.6	222.0	220.4	220.4
27.5°	576.2	469.0	312.4	268.3	246.3	229.6	215.1	203.7	196.1	195.4	194.6
30°	598.2	478.1	297.2	251.6	228.0	208.3	191.6	181.7	174.8	171.0	168.8
32.5°	627.1	490.3	282.8	234.9	206.8	187.0	171.8	163.4	154.3	148.2	145.9
35°	663.6	504.7	266.8	216.6	187.8	168.0	158.9	146.7	135.3	128.5	126.2
37.5°	704.7	525.3	250.1	197.6	168.8	154.3	149.0	130.0	117.8	115.5	114.8
40°	755.6	545.0	231.1	177.9	150.5	146.7	137.6	117.8	111.7	111.0	110.2
42.5°	806.5	566.3	212.8	158.1	136.1	137.6	124.7	114.8	109.5	107.9	107.2
45°	865.8	587.6	194.6	140.6	124.7	124.7	117.8	111.7	107.2	105.7	105.7
47.5°	928.1	608.9	174.8	125.4	116.3	111.7	112.5	107.9	104.9	103.4	102.6
50°	1006.4	629.4	156.6	114.8	111.0	104.9	107.2	104.1	102.6	101.1	100.3
52.5°	1080.2	638.5	139.9	108.7	107.9	101.9	102.6	101.1	100.3	98.1	97.3
55°	1152.4	636.2	126.9	105.7	104.1	101.1	99.6	98.8	98.1	95.8	95.0
57.5°	1233.0	633.2	118.6	104.9	101.9	98.8	98.8	96.5	93.5	93.5	93.5
60°	1316.6	623.3	114.8	104.9	101.1	98.8	97.3	95.0	92.0	92.7	92.0
62.5°	1410.8	604.3	112.5	107.2	101.9	98.1	96.5	93.5	89.7	90.5	89.7
65°	1493.7	565.6	111.0	109.5	103.4	98.8	95.0	91.2	86.7	87.4	86.7
67.5°	1549.9	500.2	106.4	111.0	105.7	98.1	93.5	88.2	82.1	85.1	84.4
70°	1534.0	406.7	98.1	107.9	107.9	98.8	91.2	84.4	77.5	83.6	81.3
72.5°	1410.1	305.6	82.1	97.3	106.4	98.8	86.7	78.3	72.2	76.0	71.5
75°	1157.7	207.5	65.4	77.5	99.6	99.6	82.9	72.2	64.6	62.3	60.8
77.5°	722.1	129.2	50.9	57.0	83.6	98.8	79.1	64.6	54.0	52.5	50.9
80°	285.8	69.2	40.3	41.0	61.6	90.5	73.7	54.7	43.3	41.8	38.8
82.5°	65.4	35.0	28.1	27.4	38.0	73.7	66.9	43.3	33.4	33.4	28.1
85°	19.8	18.2	18.2	17.5	19.0	38.0	51.7	29.6	22.8	16.0	13.7
87.5°	5.3	7.6	6.8	6.1	6.1	5.3	16.7	7.6	4.6	2.3	1.5
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)