

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: P594589

Luminaire Tested: **ISS-PA1B-827-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1B-827-U-T2U-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2832 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

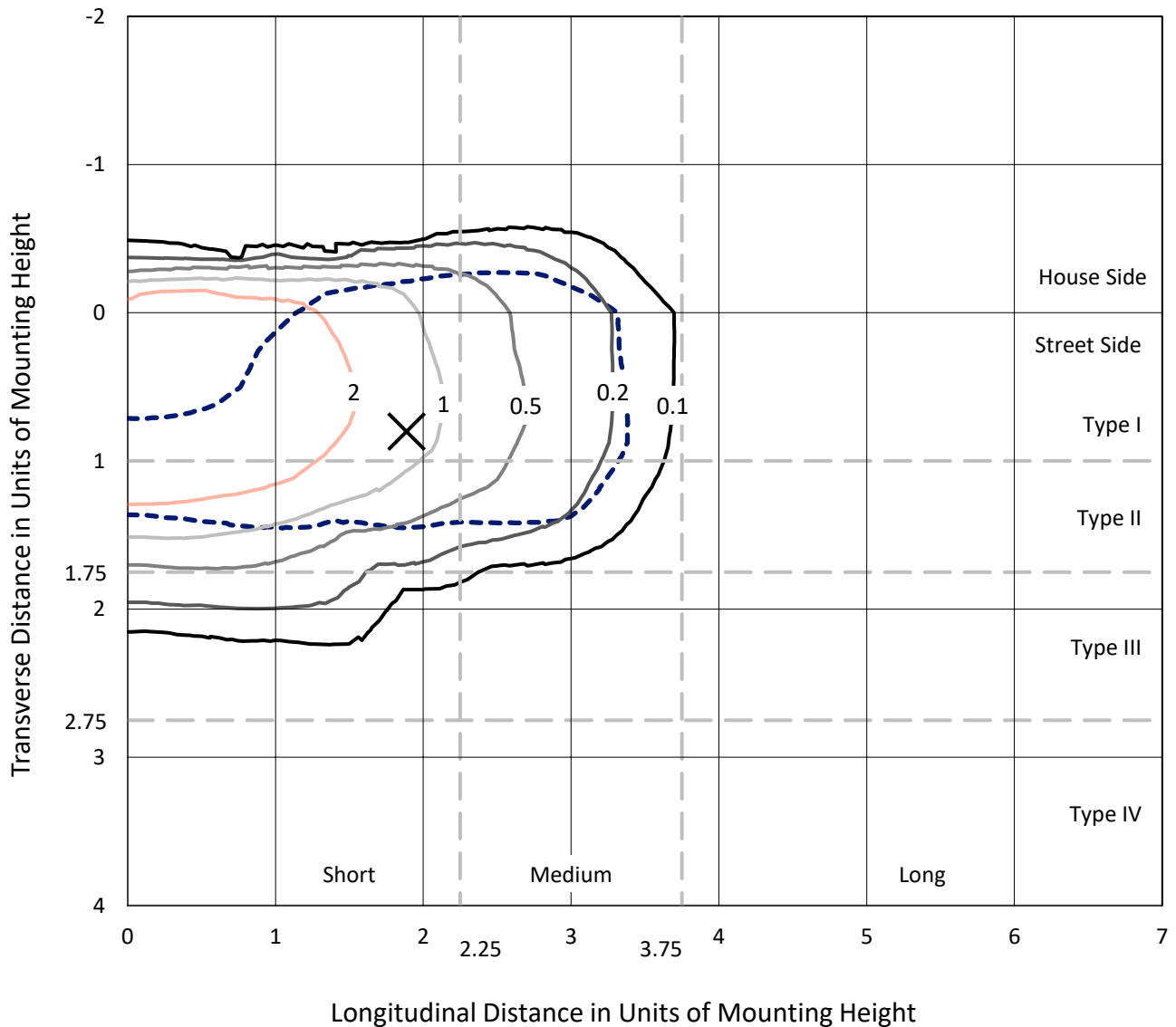
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594589  
 CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

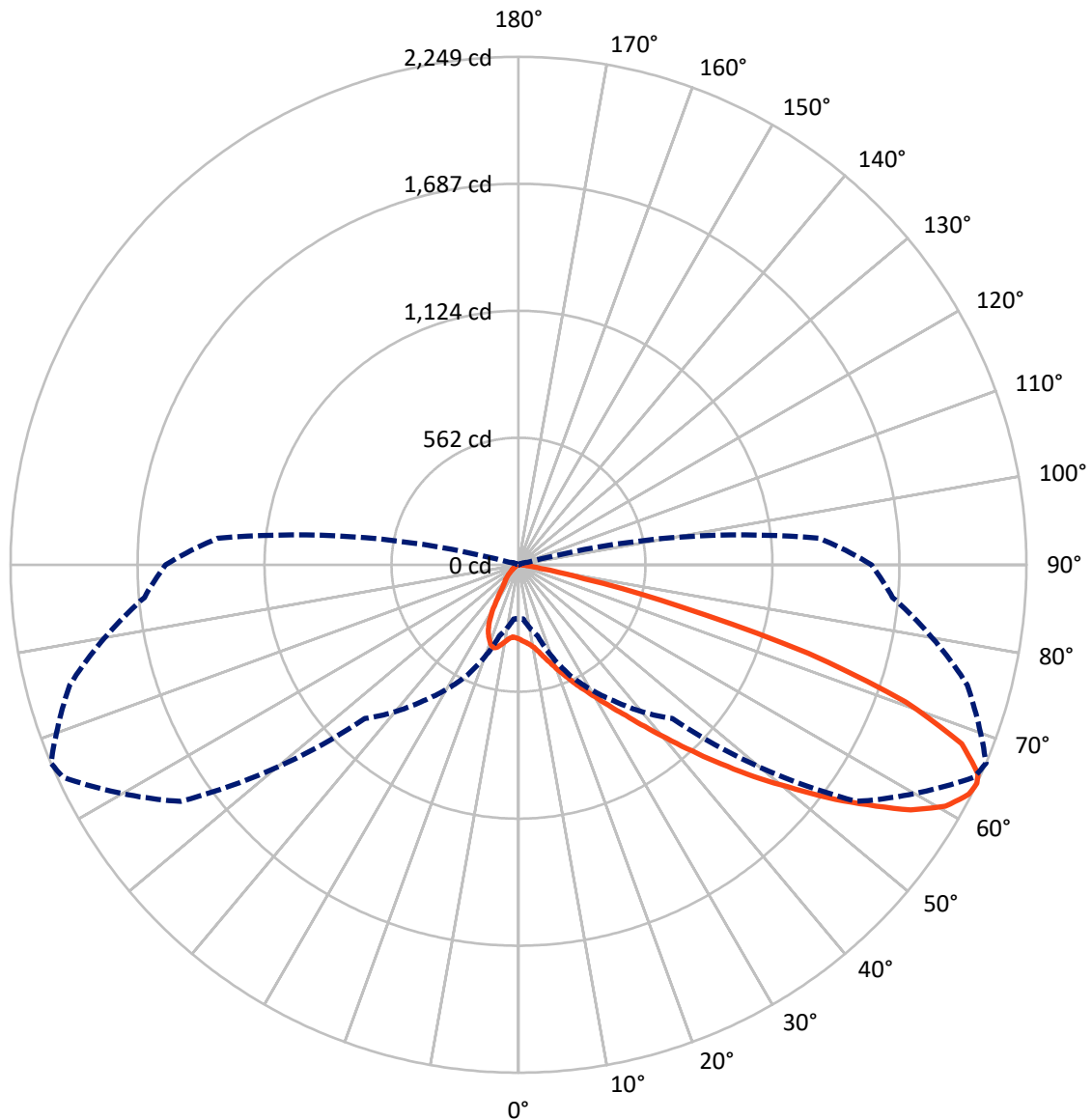
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P594589  
CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P594589

CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

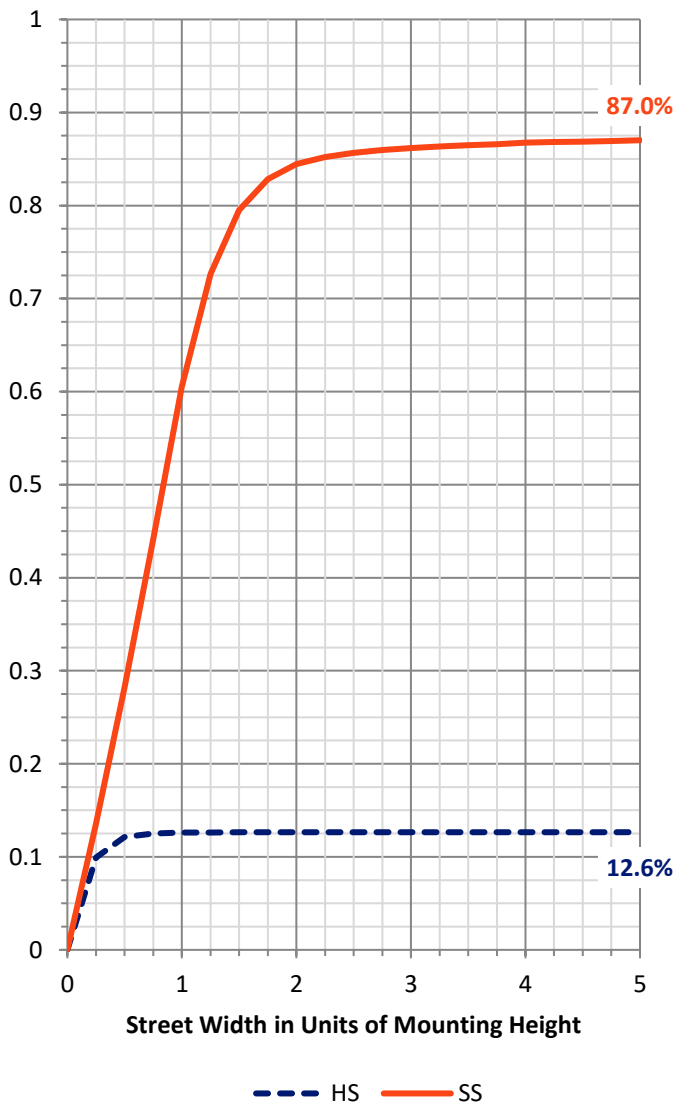
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	362.3	0.0	362.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2469.7	0.0	2469.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2832.0	0.0	2832.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	92.1	3.3
20°-30°	167.2	5.9
30°-40°	320.2	11.3
40°-50°	590.2	20.8
50°-60°	762.3	26.9
60°-70°	624.4	22.0
70°-80°	229.5	8.1
80°-90°	14.8	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°	2832.0	100.0
0°-180°	2832.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P594589

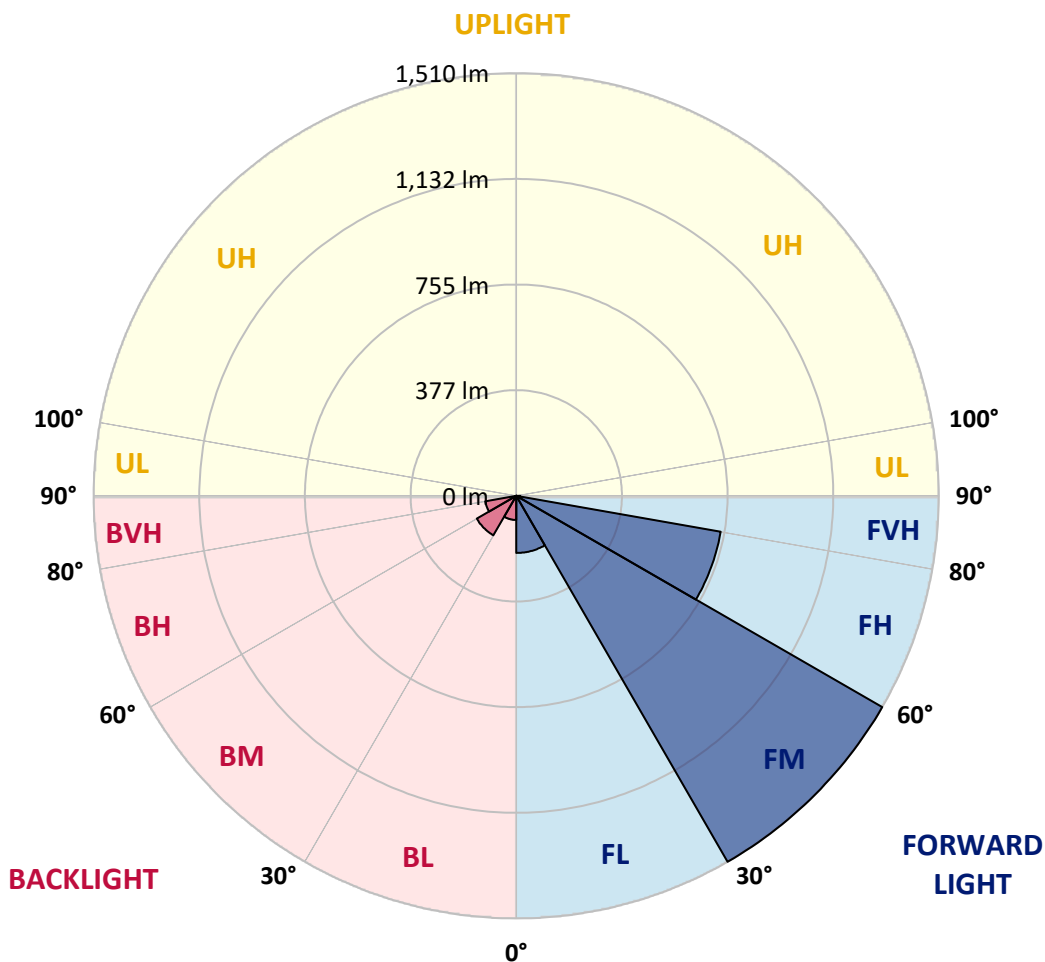
CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.2	7.2			
FM (30°-60°)	1509.9	53.3			
FH (60°-80°)	741.5	26.2			G1/1800
FVH (80°-90°)	14.1	0.5			G1/100
BL (0°-30°)	86.3	3.0	B0/110		
BM (30°-60°)	162.9	5.8	B0/220		
BH (60°-80°)	112.4	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
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: P594589  
 CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1
2.5°	340.7	340.7	342.7	341.7	341.7	339.8	336.9	337.8	336.9	335.9	333.0
5°	334.9	335.9	336.9	338.8	342.7	344.6	344.6	345.6	345.6	344.6	340.7
7.5°	332.0	333.9	335.9	337.8	342.7	345.6	350.5	356.3	356.3	357.3	353.4
10°	342.7	344.6	347.6	350.5	355.4	360.2	364.1	370.9	370.9	372.9	371.9
12.5°	365.1	365.1	366.1	368.0	374.8	380.7	387.5	393.3	394.3	395.3	392.3
15°	392.3	392.3	393.3	393.3	397.2	406.0	418.6	424.5	423.5	422.5	416.7
17.5°	423.5	423.5	423.5	424.5	426.4	431.3	445.9	457.6	456.6	455.6	443.9
20°	452.7	454.7	456.6	457.6	459.5	463.4	479.0	492.6	495.5	491.6	471.2
22.5°	485.8	486.8	487.8	490.7	495.5	497.5	513.1	533.5	536.4	531.6	504.3
25°	518.9	520.9	523.8	527.7	532.5	542.3	553.0	580.2	583.2	577.3	540.3
27.5°	591.9	591.0	582.2	575.4	576.3	583.2	597.8	627.0	629.9	624.1	576.3
30°	716.5	704.9	688.3	658.1	628.9	631.8	652.3	680.5	685.4	677.6	616.3
32.5°	893.7	882.0	841.2	775.0	710.7	689.3	715.6	742.8	748.7	739.9	663.0
35°	1066.1	1063.1	1024.2	944.4	835.3	775.9	782.7	817.8	819.7	809.0	721.4
37.5°	1279.3	1268.6	1215.0	1125.4	996.9	890.8	871.3	904.4	909.3	896.7	792.5
40°	1420.4	1416.5	1384.4	1321.1	1182.9	1049.5	979.4	1011.5	1010.6	992.1	874.3
42.5°	1502.2	1504.2	1502.2	1472.0	1393.2	1240.3	1122.5	1124.5	1127.4	1107.9	968.7
45°	1557.7	1557.7	1560.6	1585.0	1554.8	1468.1	1296.8	1253.0	1256.9	1226.7	1067.0
47.5°	1556.7	1562.6	1578.1	1634.6	1675.5	1680.4	1514.9	1402.9	1401.0	1355.2	1168.3
50°	1451.6	1447.7	1511.9	1638.5	1761.2	1855.6	1721.3	1561.6	1545.0	1488.6	1273.4
52.5°	1215.0	1227.7	1334.8	1520.7	1781.6	1974.4	1899.4	1734.9	1713.5	1621.0	1365.9
55°	1008.6	1022.2	1126.4	1308.5	1670.6	2016.2	2019.2	1918.9	1876.1	1735.9	1461.3
57.5°	757.4	783.7	937.5	1108.9	1427.2	1912.1	2062.0	2095.1	2048.4	1846.8	1539.2
60°	483.9	499.4	671.8	883.0	1156.6	1639.5	2053.2	2197.3	2172.0	1948.1	1604.4
62.5°	316.4	325.2	443.9	664.9	881.1	1235.5	1949.1	2238.2	2238.2	2016.2	1653.1
64°	238.5	240.5	325.2	540.3	735.0	962.9	1826.4	2225.6	2248.9	2057.1	1662.8
65°	188.9	189.8	254.1	448.8	660.1	789.6	1719.3	2198.3	2236.3	2072.7	1668.7
67.5°	132.4	135.3	164.5	259.0	473.2	455.6	1274.4	2069.8	2116.5	2077.6	1660.9
70°	114.9	118.8	138.2	169.4	337.8	264.8	677.6	1764.1	1819.6	1935.4	1546.0
72.5°	87.6	92.5	115.9	143.1	237.5	179.1	261.9	1253.0	1340.6	1496.4	1276.3
75°	63.3	65.2	85.7	116.8	166.5	138.2	112.9	646.4	735.0	883.0	793.5
77.5°	39.9	42.8	58.4	87.6	149.0	105.1	67.2	235.6	296.9	384.6	346.6
80°	23.4	24.3	35.0	60.4	100.3	77.9	42.8	83.7	101.3	143.1	92.5
82.5°	13.6	14.6	22.4	40.9	65.2	60.4	27.3	42.8	47.7	54.5	19.5
85°	4.9	4.9	15.6	24.3	35.0	30.2	15.6	22.4	24.3	30.2	5.8
87.5°	1.0	1.0	7.8	12.7	12.7	4.9	7.8	9.7	11.7	16.6	1.9
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: P594589  
 CATALOG NUMBER: ISS-PA1B-827-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1	329.1
2.5°	332.0	329.1	326.1	322.2	319.3	313.5	310.6	306.7	305.7	303.8	302.8
5°	339.8	334.9	328.1	318.4	312.5	303.8	297.9	292.1	291.1	289.1	288.2
7.5°	350.5	345.6	336.9	326.1	316.4	307.6	300.8	292.1	283.3	276.5	276.5
10°	368.0	362.2	350.5	340.7	329.1	310.6	278.4	249.2	230.7	219.1	215.2
12.5°	389.4	381.6	369.0	357.3	334.9	276.5	226.8	188.9	157.7	143.1	140.2
15°	411.8	405.0	392.3	374.8	307.6	230.7	165.5	107.1	76.9	63.3	65.2
17.5°	436.2	426.4	411.8	376.8	270.7	172.3	88.6	54.5	46.7	44.8	44.8
20°	461.5	448.8	434.2	355.4	222.9	99.3	50.6	40.9	38.0	35.0	36.0
22.5°	488.7	473.2	450.8	323.2	159.7	53.5	38.9	33.1	29.2	28.2	28.2
25°	517.9	495.5	467.3	286.2	92.5	40.9	32.1	26.3	23.4	22.4	21.4
27.5°	549.1	520.9	471.2	237.5	52.6	34.1	25.3	20.4	17.5	16.6	16.6
30°	577.3	546.2	462.4	176.2	39.9	28.2	20.4	15.6	13.6	13.6	13.6
32.5°	615.3	574.4	435.2	110.0	32.1	22.4	15.6	12.7	10.7	10.7	10.7
35°	664.9	616.3	407.9	58.4	26.3	18.5	12.7	9.7	8.8	8.8	8.8
37.5°	733.1	671.8	383.6	37.0	21.4	14.6	9.7	7.8	6.8	6.8	6.8
40°	803.2	738.0	349.5	28.2	17.5	11.7	7.8	5.8	4.9	4.9	5.8
42.5°	890.8	814.9	310.6	24.3	14.6	9.7	5.8	3.9	2.9	3.9	3.9
45°	979.4	895.7	256.0	20.4	12.7	7.8	3.9	1.9	1.9	2.9	2.9
47.5°	1070.9	981.4	198.6	17.5	10.7	5.8	2.9	1.0	1.0	1.9	1.9
50°	1165.4	1066.1	148.0	15.6	8.8	4.9	1.9	1.0	0.0	1.0	1.0
52.5°	1259.8	1147.8	114.9	13.6	7.8	3.9	1.0	0.0	0.0	0.0	1.0
55°	1347.4	1221.8	91.5	11.7	6.8	2.9	1.0	0.0	0.0	0.0	0.0
57.5°	1421.4	1276.3	73.0	10.7	5.8	1.9	1.0	0.0	0.0	0.0	0.0
60°	1491.5	1319.2	56.5	8.8	4.9	1.9	1.0	0.0	0.0	0.0	0.0
62.5°	1541.2	1335.7	45.8	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
64°	1562.6	1337.7	39.9	6.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0
65°	1575.2	1331.8	37.0	6.8	3.9	1.9	1.0	0.0	0.0	0.0	0.0
67.5°	1578.1	1299.7	28.2	5.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0
70°	1492.5	1187.7	20.4	3.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1247.1	907.4	13.6	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
75°	778.9	392.3	7.8	2.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	322.2	118.8	4.9	1.9	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	74.0	28.2	1.9	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	4.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	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)