

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: P595167

Luminaire Tested: **IST-PA1C-827-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1C-827-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3581 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 48.3  
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

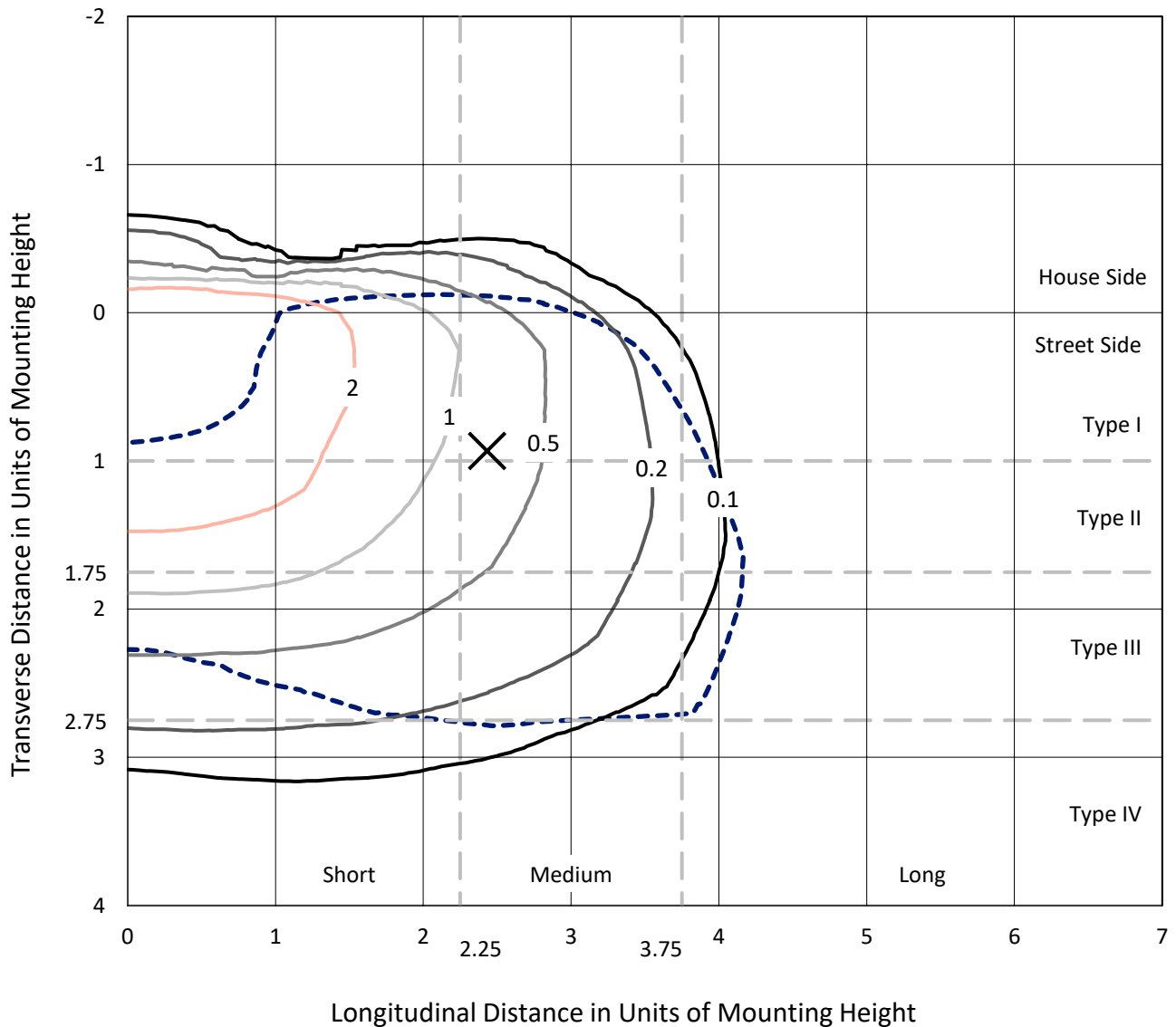




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### Iso-Footcandle Lines of Horizontal Illumination

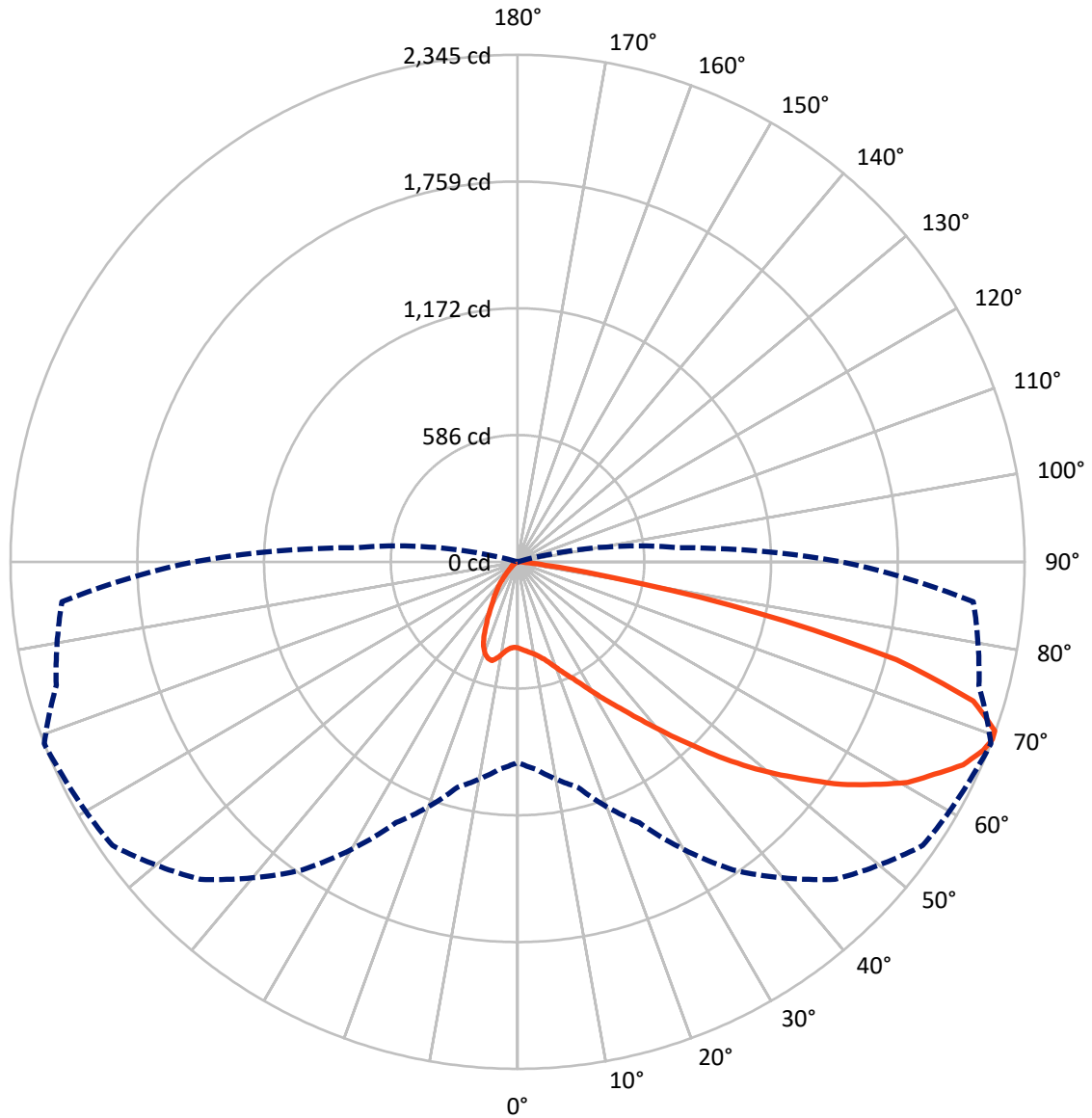
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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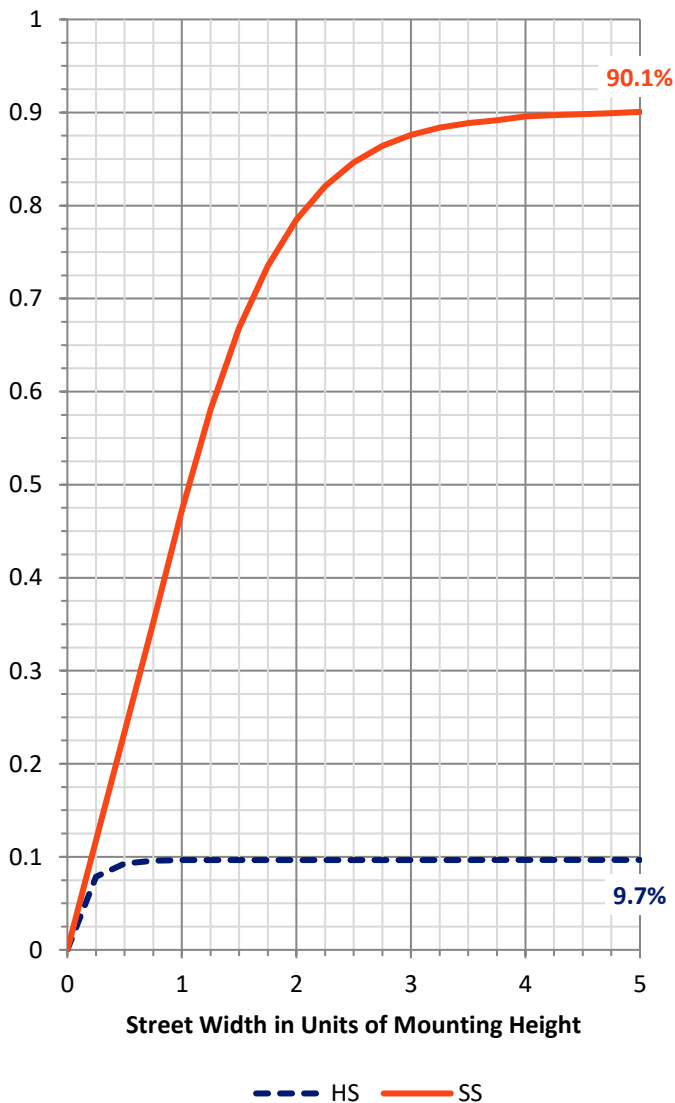
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	348.9	0.0	348.9
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	3232.1	0.0	3232.1
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	3581.0	0.0	3581.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.0	1.1
10°-20°	100.5	2.8
20°-30°	167.3	4.7
30°-40°	301.2	8.4
40°-50°	546.2	15.3
50°-60°	853.5	23.8
60°-70°	987.5	27.6
70°-80°	552.3	15.4
80°-90°	34.5	1.0
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°	3581.0	100.0
0°-180°	3581.0	100.0

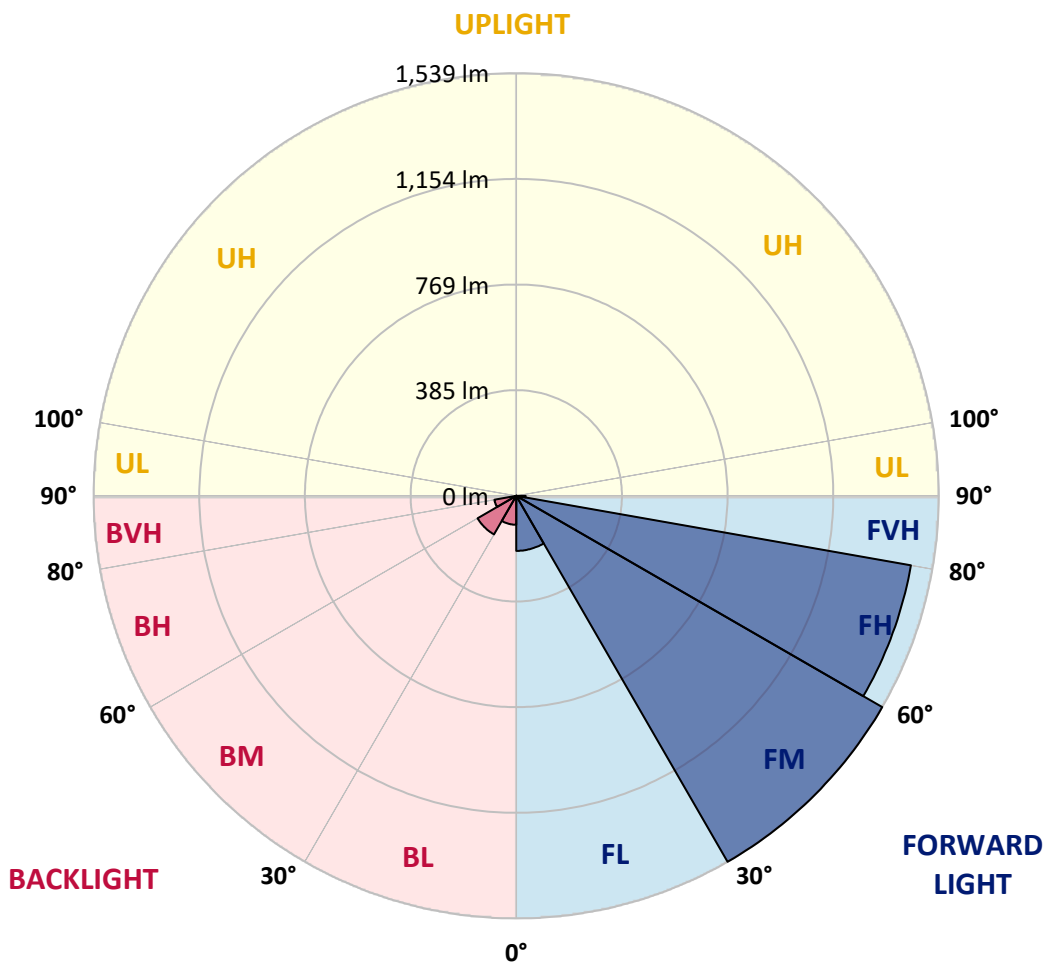


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.3	5.6			
FM (30°-60°)	1538.5	43.0			
FH (60°-80°)	1459.0	40.7			G1/1800
FVH (80°-90°)	34.2	1.0			G1/100
BL (0°-30°)	105.4	2.9	B0/110		
BM (30°-60°)	162.4	4.5	B0/220		
BH (60°-80°)	80.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3
2.5°	412.6	412.6	412.6	410.3	411.4	410.3	409.1	405.5	406.7	405.5	401.9
5°	398.3	399.5	403.1	405.5	411.4	413.8	415.0	415.0	413.8	411.4	409.1
7.5°	370.9	370.9	374.5	381.6	393.6	406.7	417.4	423.4	424.6	424.6	421.0
10°	363.7	363.7	368.5	373.3	385.2	400.7	417.4	431.7	434.1	436.5	435.3
12.5°	360.2	361.4	366.1	374.5	390.0	404.3	422.2	442.5	449.6	455.6	456.8
15°	364.9	364.9	369.7	378.1	395.9	416.2	438.9	461.5	468.7	477.0	483.0
17.5°	372.1	374.5	376.9	385.2	401.9	427.0	456.8	486.6	494.9	505.7	510.4
20°	384.0	384.0	386.4	393.6	411.4	441.3	483.0	518.8	525.9	533.1	539.1
22.5°	398.3	399.5	399.5	405.5	425.8	458.0	505.7	549.8	561.7	565.3	567.7
25°	441.3	438.9	430.5	427.0	442.5	477.0	533.1	586.8	599.9	603.5	598.7
27.5°	530.7	521.2	498.5	474.7	472.3	506.9	570.1	633.3	647.6	648.8	632.1
30°	642.8	644.0	607.0	555.8	521.2	539.1	610.6	691.7	706.0	700.1	673.8
32.5°	781.2	775.2	747.8	673.8	604.6	589.1	654.7	752.5	769.2	759.7	725.1
35°	899.2	902.8	869.4	803.8	716.8	666.7	708.4	820.5	840.8	824.1	781.2
37.5°	998.2	1003.0	982.7	929.0	851.5	772.8	778.8	900.4	927.8	911.1	857.5
40°	1107.9	1111.5	1103.2	1044.7	975.5	899.2	873.0	992.2	1029.2	1006.6	950.5
42.5°	1228.4	1241.5	1227.2	1180.7	1109.1	1043.5	1004.2	1104.3	1141.3	1127.0	1051.9
45°	1393.0	1394.2	1377.5	1330.9	1257.0	1203.3	1155.6	1223.6	1271.3	1253.4	1165.2
47.5°	1514.6	1523.0	1513.4	1481.2	1421.6	1385.8	1320.2	1354.8	1404.9	1382.2	1282.0
50°	1607.6	1630.3	1621.9	1631.5	1601.7	1586.2	1486.0	1490.8	1539.6	1520.6	1401.3
52.5°	1658.9	1687.5	1689.9	1738.8	1763.9	1802.0	1647.0	1639.8	1670.8	1654.1	1523.0
55°	1651.8	1658.9	1718.5	1808.0	1905.8	1992.8	1804.4	1774.6	1817.5	1771.0	1651.8
57.5°	1582.6	1600.5	1705.4	1816.3	1989.3	2115.7	1940.4	1907.0	1942.7	1880.7	1784.1
60°	1483.6	1509.8	1644.6	1803.2	2038.2	2189.6	2072.7	2039.3	2071.5	1996.4	1934.4
62.5°	1394.2	1406.1	1530.1	1748.4	2009.5	2186.0	2175.3	2144.3	2163.4	2084.7	2063.2
65°	1266.5	1271.3	1394.2	1649.4	1946.3	2162.2	2231.4	2243.3	2263.6	2158.6	2155.0
67.5°	1069.8	1080.5	1202.1	1476.4	1841.4	2115.7	2275.5	2299.3	2323.2	2198.0	2171.7
69°	927.8	962.4	1079.3	1330.9	1740.0	2076.3	2287.4	2325.6	2344.7	2208.7	2115.7
70°	812.2	842.0	976.7	1218.8	1650.6	2032.2	2295.8	2322.0	2341.1	2186.0	2023.8
72.5°	407.9	446.0	630.9	889.7	1311.9	1830.6	2252.8	2224.2	2203.9	2010.7	1637.4
75°	157.4	163.4	270.7	506.9	820.5	1344.1	1923.7	1870.0	1810.4	1525.3	970.8
77.5°	87.1	85.9	118.1	224.2	349.4	657.1	1301.1	1215.3	1133.0	819.3	393.6
80°	37.0	39.4	51.3	107.3	183.7	227.8	632.1	561.7	447.2	260.0	94.2
82.5°	22.7	23.9	35.8	65.6	127.6	87.1	205.1	175.3	128.8	70.4	22.7
85°	7.2	8.3	25.0	44.1	62.0	35.8	46.5	40.5	35.8	29.8	7.2
87.5°	1.2	1.2	9.5	23.9	16.7	6.0	4.8	8.3	13.1	14.3	2.4
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°	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3	398.3
2.5°	400.7	398.3	395.9	394.8	394.8	392.4	391.2	390.0	390.0	388.8	388.8
5°	405.5	403.1	400.7	399.5	397.1	395.9	395.9	395.9	394.8	395.9	397.1
7.5°	417.4	413.8	412.6	411.4	411.4	407.9	401.9	386.4	370.9	366.1	361.4
10°	434.1	432.9	432.9	432.9	424.6	393.6	350.6	312.5	292.2	275.5	275.5
12.5°	458.0	458.0	456.8	453.2	410.3	335.1	268.3	211.1	177.7	158.6	161.0
15°	484.2	483.0	485.4	462.7	361.4	258.8	162.2	114.5	96.6	94.2	94.2
17.5°	511.6	514.0	511.6	437.7	297.0	159.8	96.6	87.1	84.7	84.7	84.7
20°	540.2	537.9	534.3	394.8	215.9	100.2	83.5	81.1	78.7	77.5	77.5
22.5°	568.9	566.5	542.6	339.9	134.8	82.3	78.7	73.9	70.4	69.2	69.2
25°	596.3	596.3	527.1	269.5	91.8	77.5	71.6	66.8	63.2	59.6	59.6
27.5°	630.9	633.3	502.1	188.4	77.5	71.6	64.4	57.2	52.5	50.1	50.1
30°	670.2	673.8	461.5	122.8	70.4	63.2	56.1	47.7	40.5	38.2	37.0
32.5°	716.8	720.3	415.0	81.1	63.2	54.9	46.5	35.8	28.6	27.4	26.2
35°	776.4	768.0	359.0	64.4	54.9	46.5	35.8	25.0	20.3	19.1	19.1
37.5°	850.3	832.4	294.6	56.1	46.5	37.0	26.2	16.7	13.1	13.1	11.9
40°	935.0	884.9	227.8	50.1	39.4	28.6	16.7	10.7	8.3	8.3	8.3
42.5°	1028.0	929.0	162.2	44.1	32.2	20.3	10.7	6.0	4.8	4.8	4.8
45°	1135.4	969.6	110.9	38.2	27.4	14.3	6.0	2.4	2.4	2.4	2.4
47.5°	1242.7	995.8	73.9	33.4	20.3	8.3	3.6	1.2	1.2	1.2	1.2
50°	1351.2	1016.1	57.2	28.6	14.3	4.8	1.2	0.0	0.0	0.0	0.0
52.5°	1447.8	1030.4	46.5	23.9	9.5	3.6	1.2	0.0	0.0	0.0	0.0
55°	1531.3	1031.6	40.5	19.1	7.2	2.4	0.0	0.0	0.0	0.0	0.0
57.5°	1616.0	1022.1	34.6	14.3	4.8	1.2	0.0	0.0	0.0	0.0	0.0
60°	1667.3	997.0	27.4	10.7	3.6	1.2	0.0	0.0	0.0	0.0	0.0
62.5°	1698.3	955.3	21.5	7.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0
65°	1680.4	902.8	15.5	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1596.9	821.7	10.7	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
69°	1497.9	747.8	9.5	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
70°	1410.8	690.5	8.3	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1050.7	444.8	7.2	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	590.3	149.1	4.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	221.8	38.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.9	9.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0	0.0	0.0	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)