

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: P595169

Luminaire Tested: **IST-PA1C-827-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
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-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3532 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

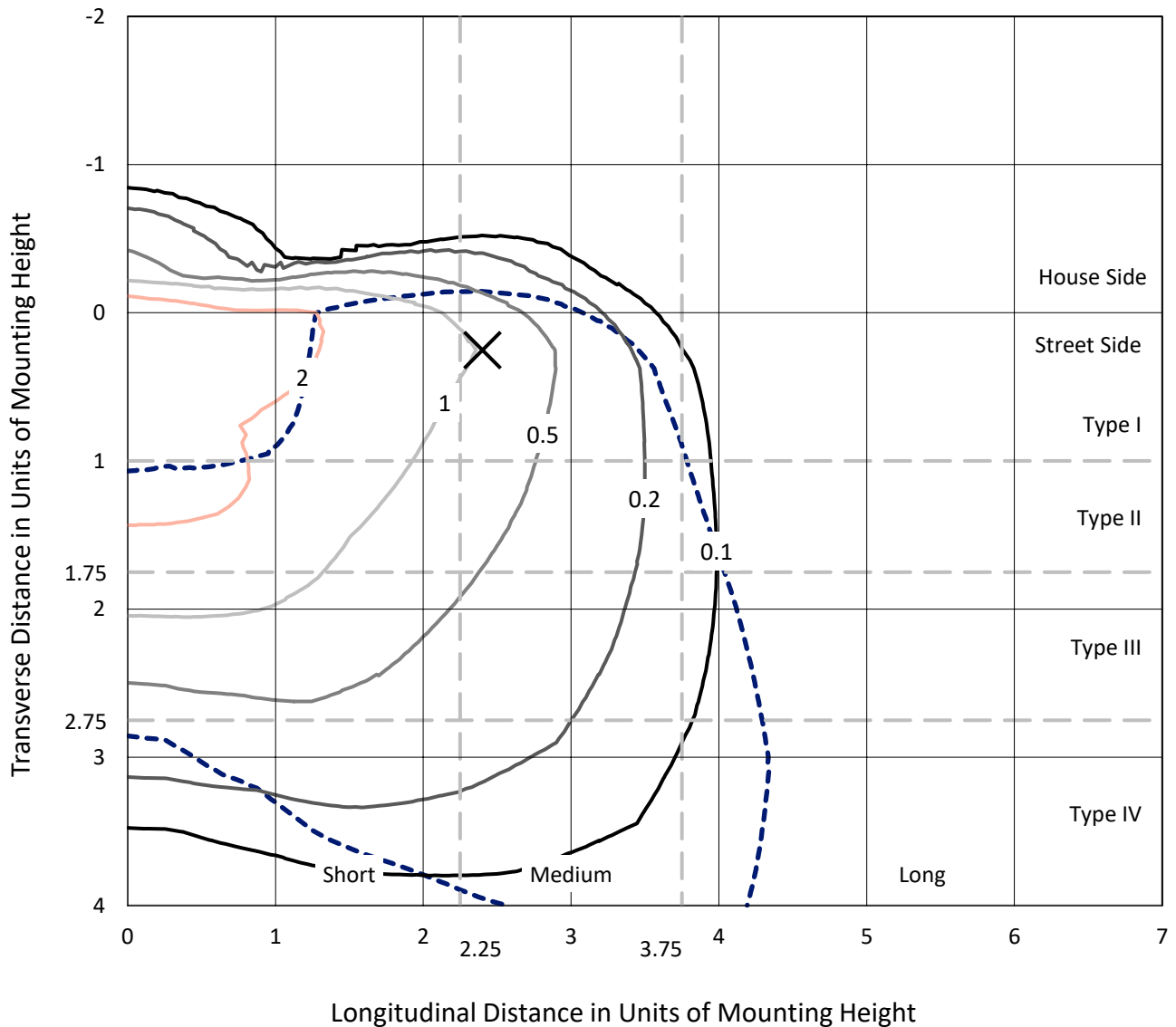
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

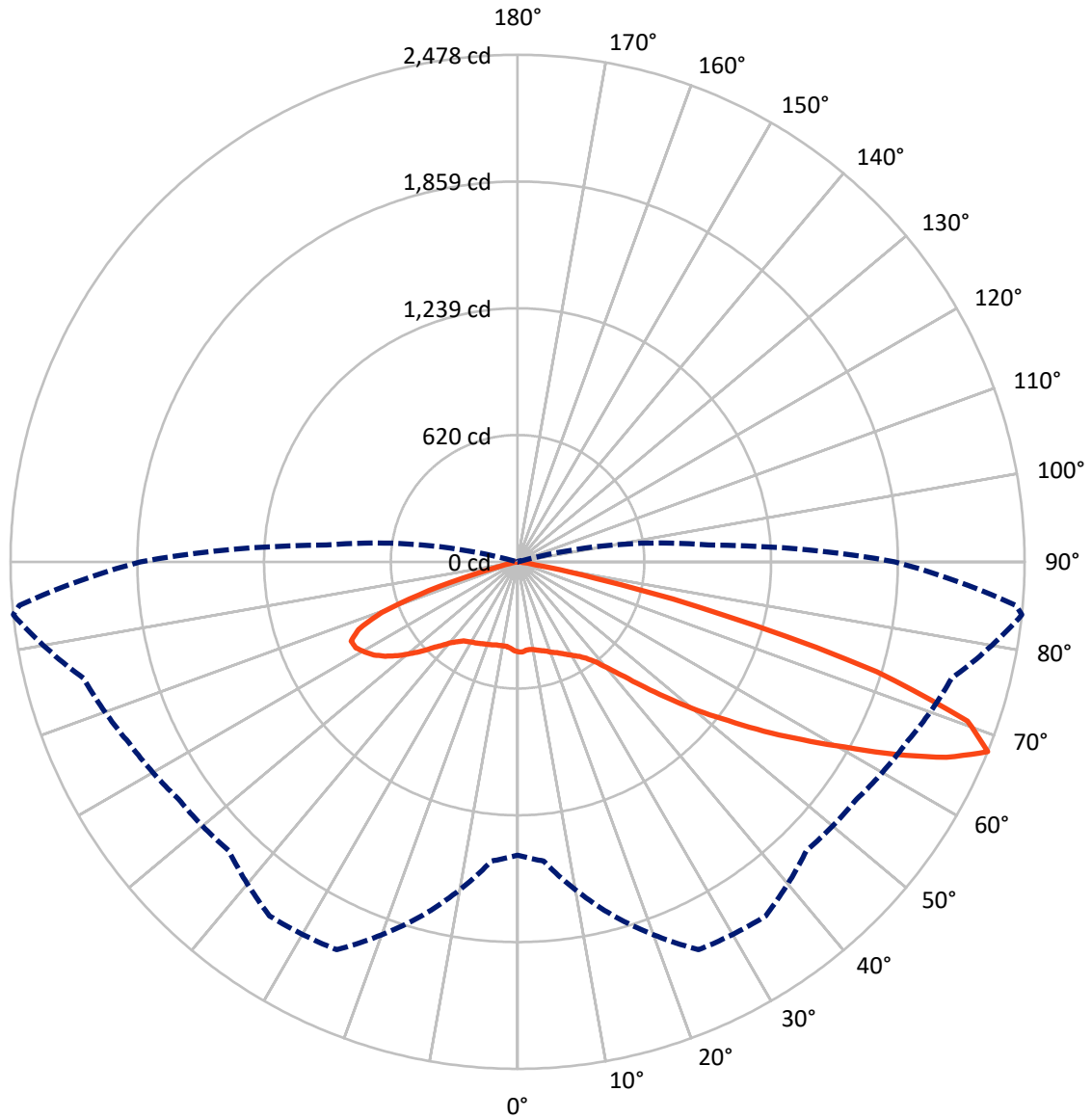
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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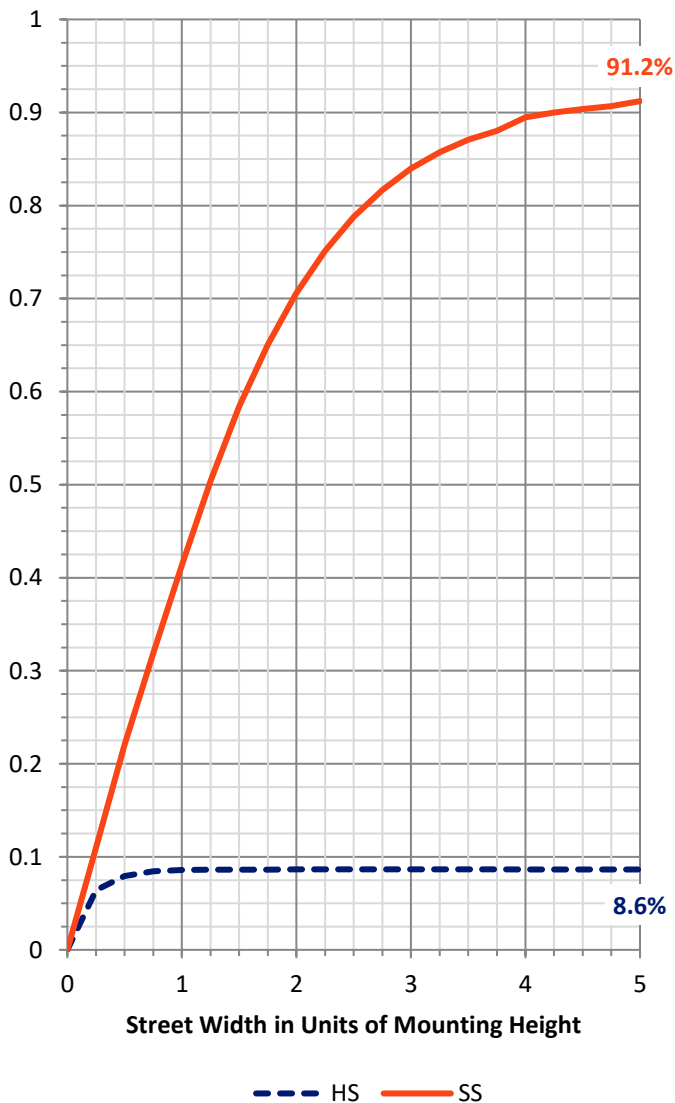
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	307.5	0.0	307.5
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	3224.5	0.0	3224.5
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	3532.0	0.0	3532.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.4	1.1
10°-20°	103.2	2.9
20°-30°	165.3	4.7
30°-40°	237.9	6.7
40°-50°	408.3	11.6
50°-60°	713.3	20.2
60°-70°	1021.5	28.9
70°-80°	767.8	21.7
80°-90°	75.4	2.1
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°	3532.0	100.0
0°-180°	3532.0	100.0

**Coefficient of Utilization**

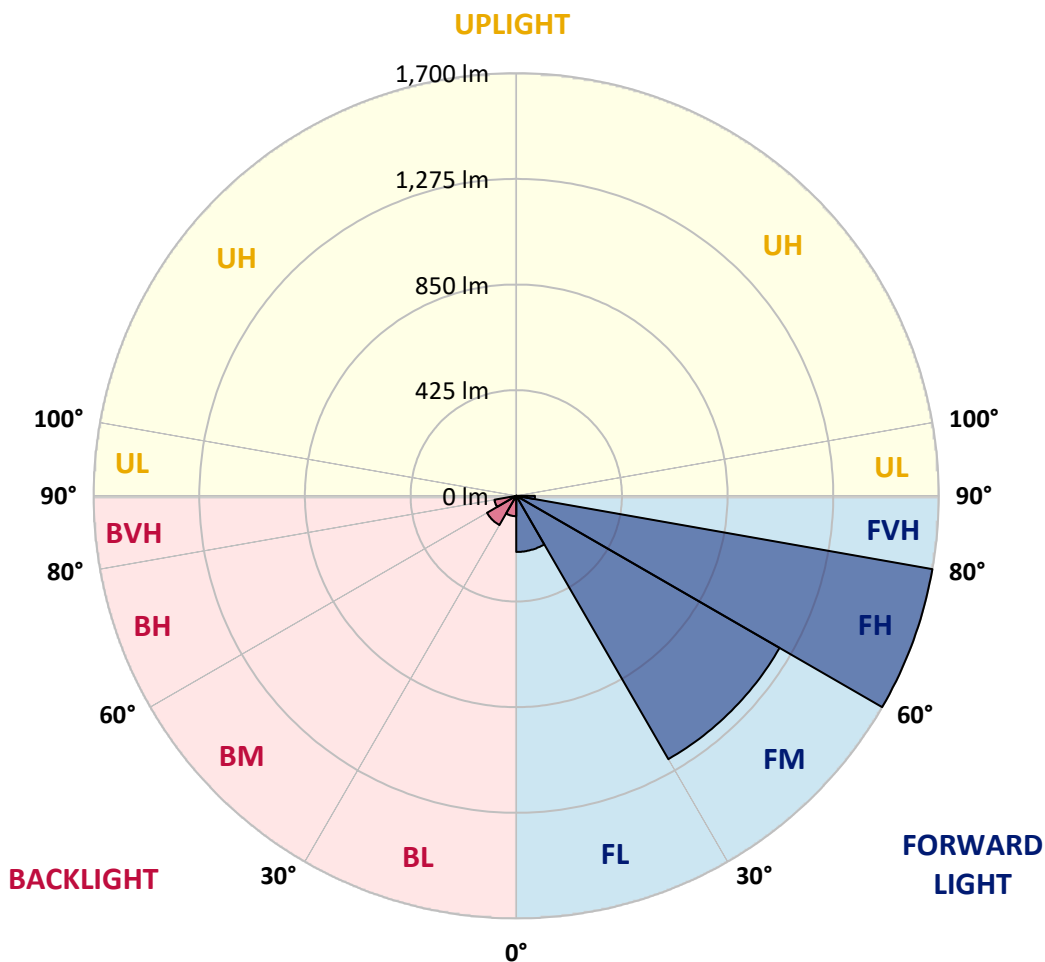


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.8	6.4			
FM (30°-60°)	1223.5	34.6			
FH (60°-80°)	1700.1	48.1			G1/1800
FVH (80°-90°)	75.1	2.1			G1/100
BL (0°-30°)	82.1	2.3	B0/110		
BM (30°-60°)	136.0	3.9	B0/220		
BH (60°-80°)	89.2	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0
2.5°	465.1	467.5	468.7	462.7	462.7	457.9	450.8	448.4	444.8	441.2	440.0
5°	488.9	492.5	491.3	484.2	480.6	471.1	461.5	452.0	442.4	434.1	434.1
7.5°	516.4	517.6	514.0	502.1	494.9	481.8	467.5	456.7	444.8	432.9	430.5
10°	540.2	539.0	534.3	522.3	509.2	492.5	477.0	465.1	450.8	436.5	435.3
12.5°	556.9	558.1	552.1	535.4	522.3	503.2	487.7	475.8	459.1	443.6	440.0
15°	571.2	574.8	567.6	551.0	531.9	515.2	503.2	487.7	468.7	450.8	448.4
17.5°	584.3	585.5	579.6	560.5	542.6	528.3	515.2	500.9	481.8	459.1	456.7
20°	591.5	595.1	591.5	567.6	551.0	540.2	529.5	515.2	493.7	472.2	469.9
22.5°	596.3	599.8	598.7	572.4	558.1	549.8	540.2	527.1	506.8	481.8	479.4
25°	598.7	601.0	603.4	577.2	565.3	561.7	553.3	541.4	522.3	496.1	493.7
27.5°	602.2	604.6	607.0	583.1	578.4	574.8	572.4	562.9	540.2	512.8	509.2
30°	608.2	611.8	614.2	593.9	593.9	597.5	597.5	584.3	559.3	530.7	528.3
32.5°	615.3	616.5	621.3	604.6	610.6	618.9	616.5	603.4	577.2	551.0	547.4
35°	634.4	634.4	642.8	621.3	628.5	635.6	638.0	628.5	604.6	578.4	577.2
37.5°	680.9	680.9	688.1	653.5	652.3	659.5	667.8	667.8	644.0	620.1	617.7
40°	785.9	785.9	785.9	706.0	692.9	701.2	714.3	721.5	701.2	684.5	684.5
42.5°	961.2	962.4	944.5	802.6	746.5	760.8	775.1	790.6	779.9	768.0	765.6
45°	1142.4	1136.5	1134.1	944.5	841.9	834.8	852.7	878.9	882.5	875.3	880.1
47.5°	1266.5	1272.4	1276.0	1121.0	975.5	926.6	943.3	980.3	1001.7	1000.5	1007.7
50°	1386.9	1390.5	1394.1	1315.4	1152.0	1042.3	1053.0	1103.1	1132.9	1142.4	1147.2
52.5°	1491.9	1482.3	1497.8	1487.1	1339.2	1174.6	1174.6	1231.9	1285.6	1289.1	1287.9
55°	1522.9	1528.8	1575.3	1607.5	1531.2	1336.8	1313.0	1373.8	1431.0	1460.9	1460.9
57.5°	1592.0	1598.0	1654.0	1726.8	1670.7	1496.6	1460.9	1520.5	1582.5	1639.7	1648.1
60°	1682.7	1683.9	1743.5	1854.4	1776.9	1640.9	1611.1	1679.1	1741.1	1838.9	1866.3
62.5°	1731.6	1736.3	1818.6	1964.1	1910.4	1767.3	1760.2	1822.2	1902.1	2073.8	2098.9
65°	1656.4	1687.4	1866.3	2029.7	2019.0	1885.4	1910.4	1960.5	2052.3	2304.0	2327.8
67.5°	1433.4	1468.0	1787.6	2091.7	2113.2	1996.3	2022.5	2095.3	2196.6	2478.1	2444.7
70°	1320.1	1348.8	1596.8	2126.3	2191.9	2120.3	2132.2	2200.2	2230.0	2332.6	2296.8
72.5°	1000.5	1030.3	1351.1	2008.2	2259.8	2250.3	2220.5	2164.4	1988.0	1835.3	1748.3
75°	442.4	477.0	899.2	1569.4	2091.7	2324.2	2166.8	1853.2	1427.5	1042.3	966.0
77.5°	195.6	215.8	348.2	871.7	1571.8	2011.8	1713.7	1235.5	716.7	387.6	360.1
80°	63.2	65.6	109.7	305.3	803.8	1332.1	1049.4	593.9	220.6	90.6	84.7
82.5°	25.0	27.4	52.5	128.8	332.7	529.5	515.2	214.7	64.4	23.9	23.9
85°	7.2	8.3	26.2	68.0	118.1	149.1	182.5	71.6	34.6	7.2	7.2
87.5°	2.4	2.4	9.5	21.5	22.7	15.5	34.6	27.4	21.5	2.4	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°	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0	440.0
2.5°	437.7	435.3	429.3	424.5	422.2	418.6	413.8	411.4	411.4	410.2	406.7
5°	429.3	425.7	415.0	407.8	401.9	388.8	379.2	367.3	355.4	351.8	355.4
7.5°	425.7	418.6	404.3	390.0	364.9	330.3	307.7	282.6	274.3	263.5	264.7
10°	426.9	418.6	398.3	366.1	317.2	265.9	230.2	196.8	180.1	171.7	172.9
12.5°	430.5	421.0	392.3	333.9	263.5	201.5	146.7	120.4	115.7	115.7	115.7
15°	437.7	423.3	382.8	295.7	206.3	133.6	103.8	101.4	104.9	108.5	109.7
17.5°	444.8	430.5	368.5	256.4	150.3	100.2	96.6	96.6	100.2	103.8	104.9
20°	453.2	437.7	348.2	214.7	107.3	94.2	93.0	91.8	94.2	97.8	99.0
22.5°	466.3	444.8	324.4	165.8	93.0	90.6	88.2	87.1	88.2	91.8	93.0
25°	478.2	454.4	299.3	122.8	87.1	84.7	83.5	82.3	82.3	84.7	85.9
27.5°	492.5	465.1	271.9	91.8	79.9	78.7	77.5	76.3	75.1	77.5	78.7
30°	510.4	474.6	242.1	77.5	72.7	71.6	70.4	69.2	68.0	69.2	70.4
32.5°	533.1	487.7	207.5	70.4	66.8	63.2	62.0	62.0	60.8	60.8	62.0
35°	562.9	502.1	170.5	65.6	60.8	57.2	53.7	52.5	52.5	52.5	53.7
37.5°	607.0	528.3	134.8	60.8	56.0	50.1	46.5	42.9	42.9	42.9	42.9
40°	667.8	556.9	104.9	57.2	52.5	44.1	39.4	34.6	32.2	31.0	32.2
42.5°	762.0	599.8	81.1	52.5	50.1	39.4	32.2	26.2	21.5	20.3	21.5
45°	865.8	646.4	64.4	48.9	45.3	33.4	25.0	17.9	13.1	11.9	13.1
47.5°	997.0	704.8	54.9	44.1	39.4	27.4	17.9	9.5	6.0	7.2	7.2
50°	1123.4	762.0	50.1	40.5	34.6	22.7	10.7	4.8	2.4	3.6	3.6
52.5°	1262.9	822.8	46.5	35.8	29.8	16.7	6.0	1.2	0.0	1.2	1.2
55°	1403.6	877.7	42.9	32.2	23.9	11.9	2.4	0.0	0.0	0.0	1.2
57.5°	1556.3	924.2	39.4	27.4	17.9	7.2	1.2	0.0	0.0	0.0	0.0
60°	1683.9	960.0	35.8	23.9	11.9	3.6	0.0	0.0	0.0	0.0	0.0
62.5°	1800.7	992.2	27.4	17.9	7.2	2.4	0.0	0.0	0.0	0.0	0.0
65°	1878.2	999.3	19.1	11.9	4.8	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1843.7	937.3	11.9	8.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0
70°	1620.7	787.1	8.3	4.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1134.1	508.0	7.2	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	598.7	183.7	4.8	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	212.3	40.5	2.4	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
80°	46.5	8.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.0	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)