

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: P595052

Luminaire Tested: **IST-PA1B-735-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595052
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-PA1B-735-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 3461 lumens
Efficiency: N/A
Efficacy: 95.1 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

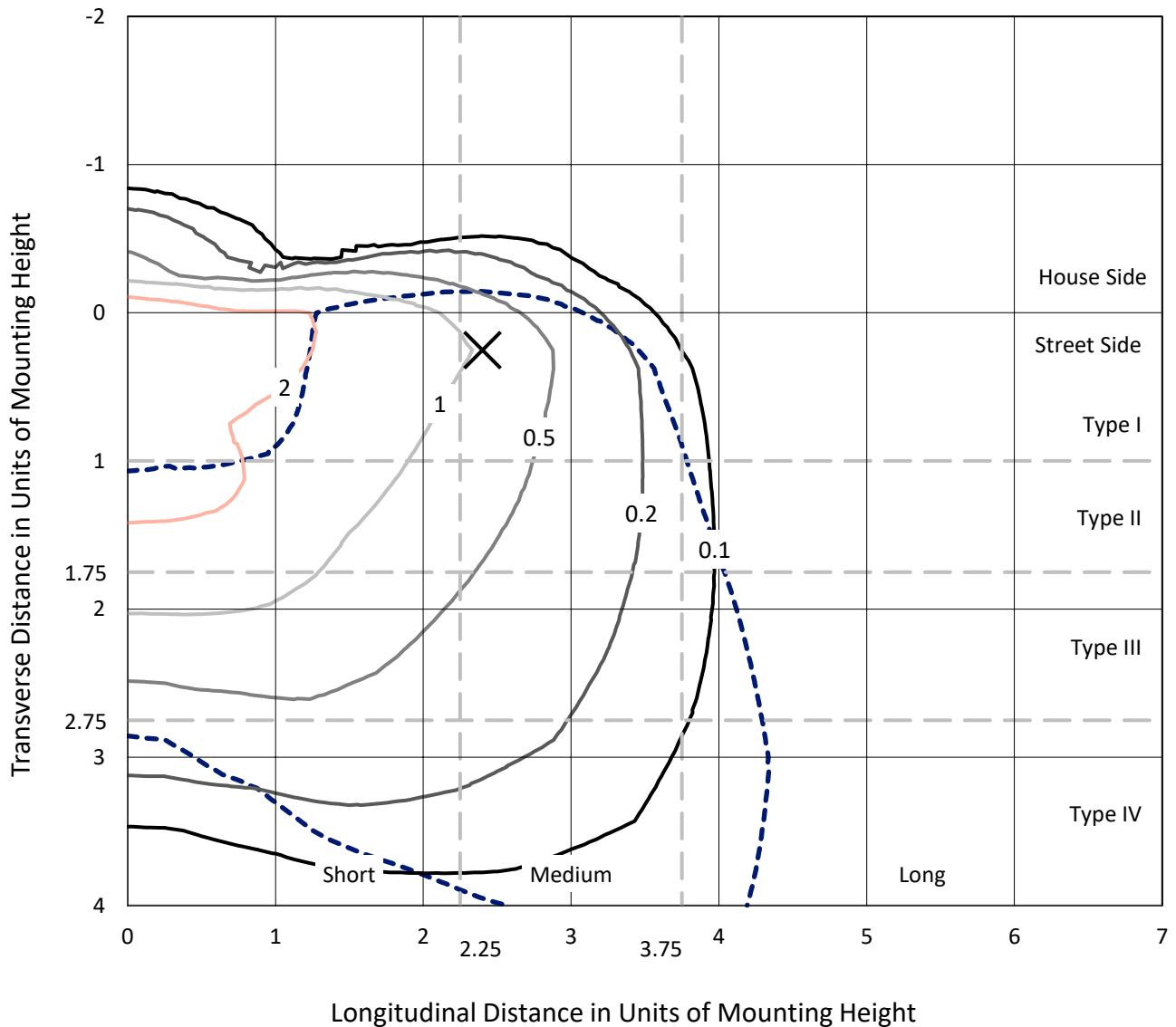
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

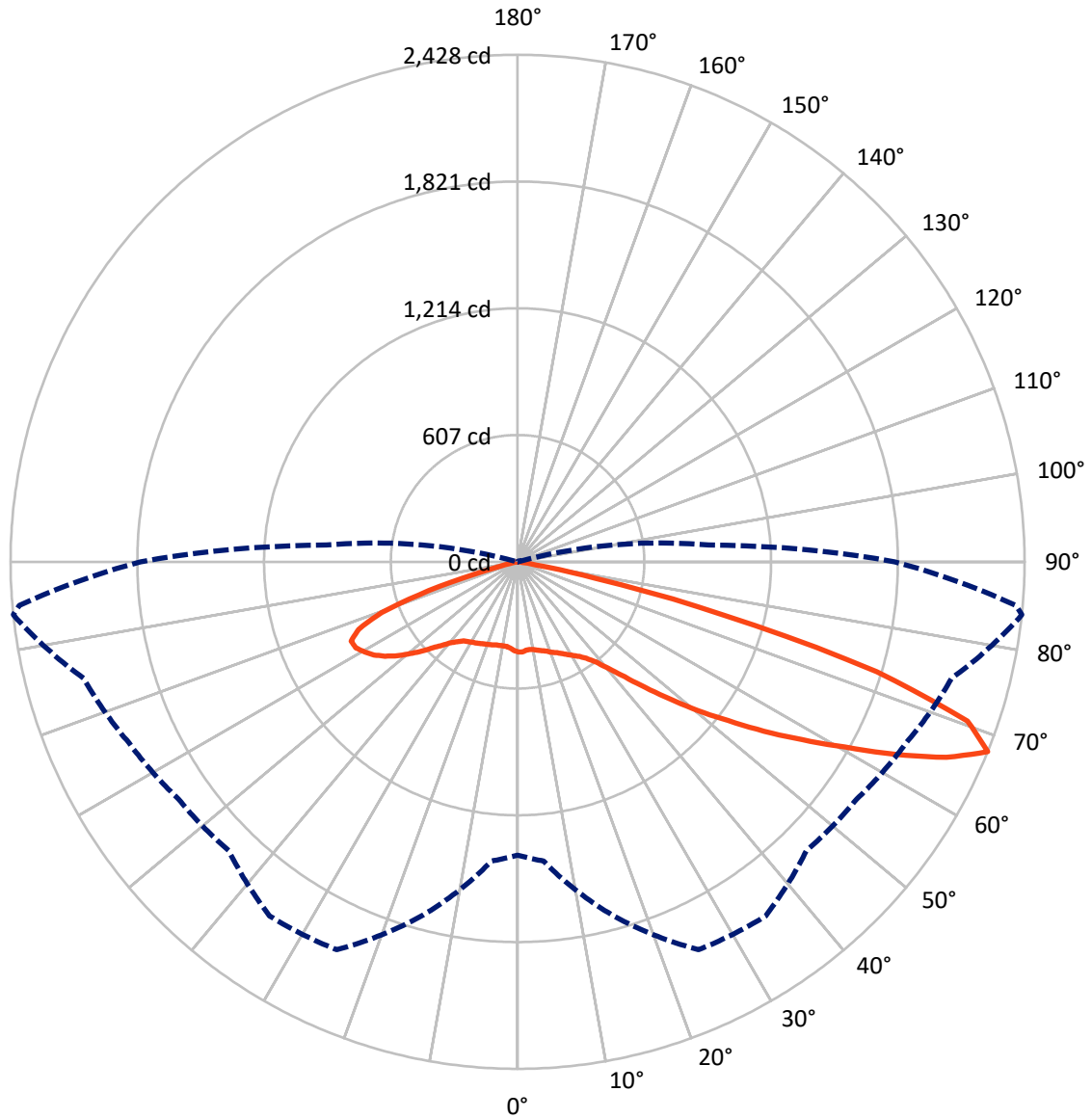
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.5 fc
 Type 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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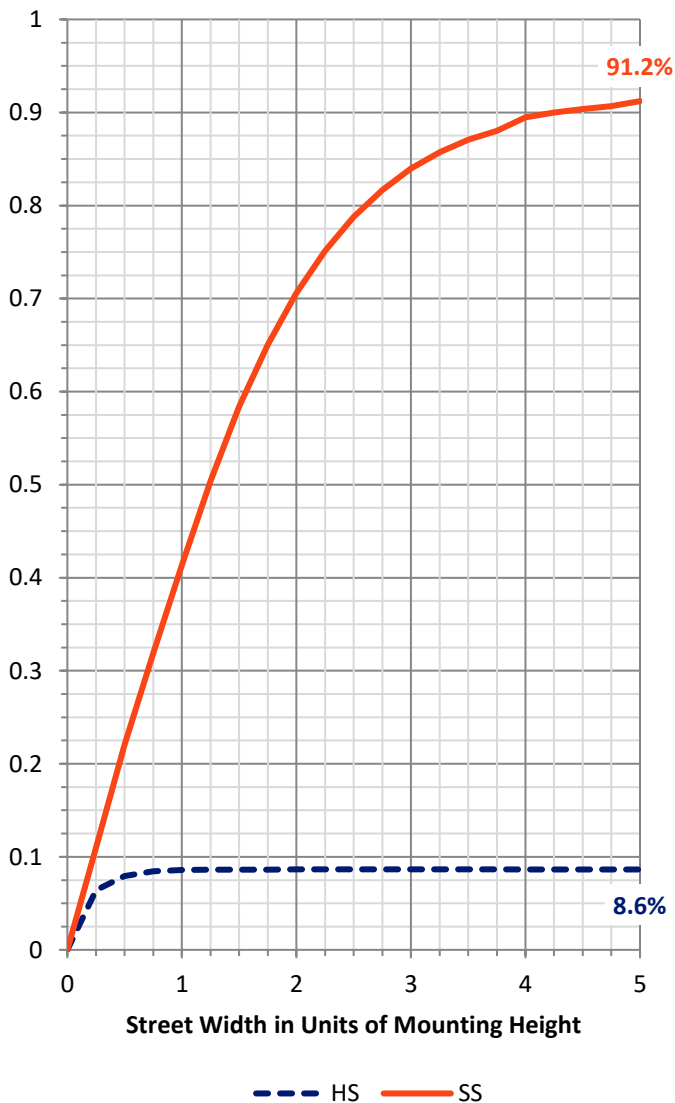
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	301.3	0.0	301.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3159.7	0.0	3159.7
	% Fixture	91.3	0.0	91.3
Total	Lumens	3461.0	0.0	3461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	101.1	2.9
20°-30°	162.0	4.7
30°-40°	233.1	6.7
40°-50°	400.1	11.6
50°-60°	699.0	20.2
60°-70°	1001.0	28.9
70°-80°	752.3	21.7
80°-90°	73.8	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°	3461.0	100.0
0°-180°	3461.0	100.0

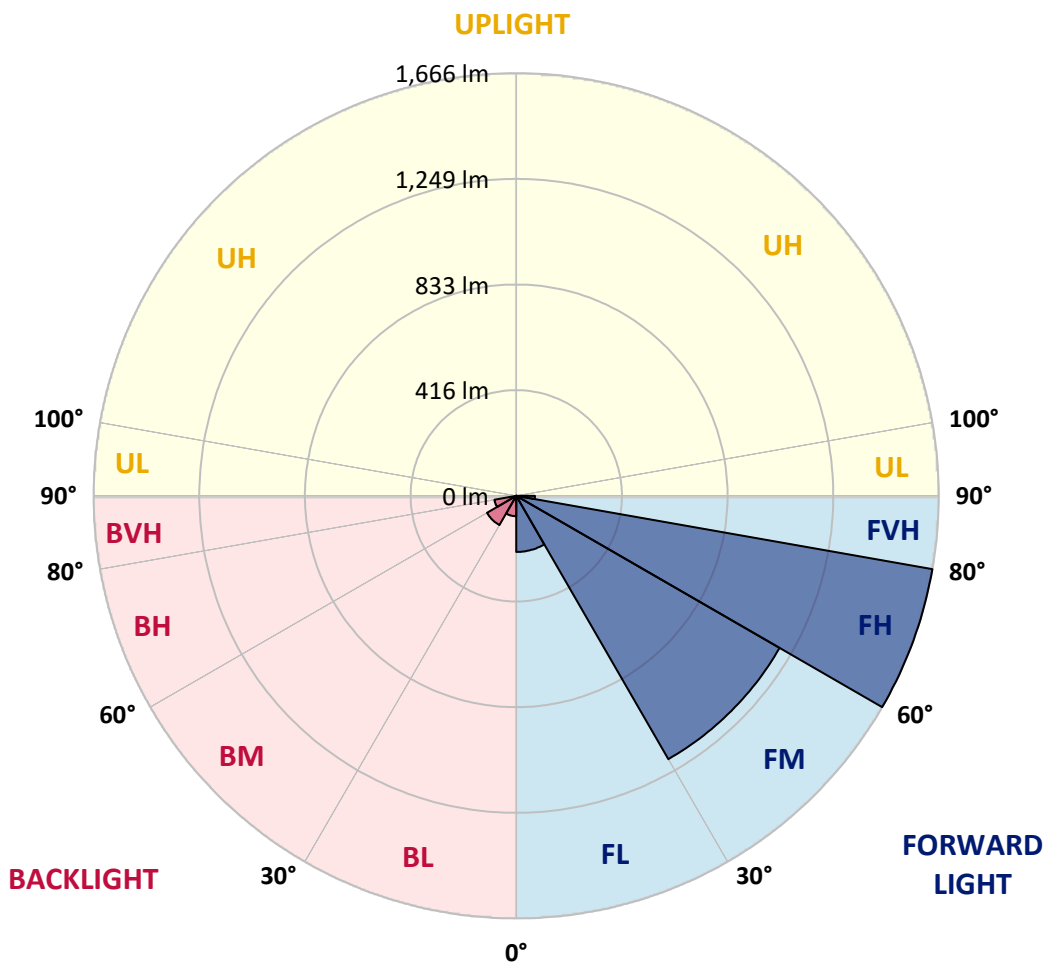


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.3	6.4			
FM (30°-60°)	1198.9	34.6			
FH (60°-80°)	1665.9	48.1			G1/1800
FVH (80°-90°)	73.6	2.1			G1/100
BL (0°-30°)	80.5	2.3	B0/110		
BM (30°-60°)	133.3	3.9	B0/220		
BH (60°-80°)	87.4	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°	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2
2.5°	455.7	458.1	459.2	453.4	453.4	448.7	441.7	439.4	435.9	432.4	431.2
5°	479.1	482.6	481.4	474.4	470.9	461.6	452.2	442.9	433.5	425.4	425.4
7.5°	506.0	507.2	503.6	492.0	485.0	472.1	458.1	447.6	435.9	424.2	421.9
10°	529.4	528.2	523.5	511.8	499.0	482.6	467.4	455.7	441.7	427.7	426.5
12.5°	545.7	546.9	541.0	524.7	511.8	493.1	477.9	466.3	449.9	434.7	431.2
15°	559.7	563.2	556.2	539.9	521.2	504.8	493.1	477.9	459.2	441.7	439.4
17.5°	572.6	573.8	567.9	549.2	531.7	517.7	504.8	490.8	472.1	449.9	447.6
20°	579.6	583.1	579.6	556.2	539.9	529.4	518.8	504.8	483.8	462.8	460.4
22.5°	584.3	587.8	586.6	560.9	546.9	538.7	529.4	516.5	496.6	472.1	469.8
25°	586.6	589.0	591.3	565.6	553.9	550.4	542.2	530.5	511.8	486.1	483.8
27.5°	590.1	592.5	594.8	571.4	566.8	563.2	560.9	551.6	529.4	502.5	499.0
30°	596.0	599.5	601.8	581.9	581.9	585.4	585.4	572.6	548.1	520.0	517.7
32.5°	603.0	604.1	608.8	592.5	598.3	606.5	604.1	591.3	565.6	539.9	536.4
35°	621.7	621.7	629.9	608.8	615.8	622.8	625.2	615.8	592.5	566.8	565.6
37.5°	667.2	667.2	674.3	640.4	639.2	646.2	654.4	654.4	631.0	607.7	605.3
40°	770.1	770.1	770.1	691.8	678.9	687.1	700.0	707.0	687.1	670.8	670.8
42.5°	941.9	943.0	925.5	786.4	731.5	745.5	759.6	774.8	764.2	752.6	750.2
45°	1119.5	1113.6	1111.3	925.5	825.0	818.0	835.5	861.2	864.7	857.7	862.4
47.5°	1241.0	1246.9	1250.4	1098.4	955.9	908.0	924.3	960.6	981.6	980.4	987.4
50°	1359.0	1362.5	1366.0	1288.9	1128.8	1021.3	1031.8	1080.9	1110.1	1119.5	1124.2
52.5°	1461.9	1452.5	1467.7	1457.2	1312.3	1151.0	1151.0	1207.1	1259.7	1263.2	1262.0
55°	1492.3	1498.1	1543.7	1575.2	1500.4	1310.0	1286.6	1346.2	1402.3	1431.5	1431.5
57.5°	1560.0	1565.9	1620.8	1692.1	1637.2	1466.5	1431.5	1489.9	1550.7	1606.8	1615.0
60°	1648.8	1650.0	1708.4	1817.1	1741.2	1607.9	1578.7	1645.3	1706.1	1801.9	1828.8
62.5°	1696.8	1701.4	1782.1	1924.6	1872.0	1731.8	1724.8	1785.6	1863.9	2032.1	2056.7
65°	1623.1	1653.5	1828.8	1988.9	1978.4	1847.5	1872.0	1921.1	2011.1	2257.7	2281.0
67.5°	1404.6	1438.5	1751.7	2049.7	2070.7	1956.2	1981.9	2053.2	2152.5	2428.3	2395.5
70°	1293.6	1321.6	1564.7	2083.5	2147.8	2077.7	2089.4	2156.0	2185.2	2285.7	2250.6
72.5°	980.4	1009.6	1324.0	1967.9	2214.4	2205.1	2175.9	2120.9	1948.0	1798.4	1713.1
75°	433.5	467.4	881.1	1537.8	2049.7	2277.5	2123.3	1815.9	1398.8	1021.3	946.5
77.5°	191.6	211.5	341.2	854.2	1540.2	1971.4	1679.2	1210.6	702.3	379.8	352.9
80°	61.9	64.3	107.5	299.2	787.6	1305.3	1028.3	581.9	216.2	88.8	83.0
82.5°	24.5	26.9	51.4	126.2	326.0	518.8	504.8	210.3	63.1	23.4	23.4
85°	7.0	8.2	25.7	66.6	115.7	146.1	178.8	70.1	33.9	7.0	7.0
87.5°	2.3	2.3	9.3	21.0	22.2	15.2	33.9	26.9	21.0	2.3	2.3
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°	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2	431.2
2.5°	428.9	426.5	420.7	416.0	413.7	410.2	405.5	403.2	403.2	402.0	398.5
5°	420.7	417.2	406.7	399.6	393.8	381.0	371.6	359.9	348.2	344.7	348.2
7.5°	417.2	410.2	396.1	382.1	357.6	323.7	301.5	276.9	268.8	258.3	259.4
10°	418.3	410.2	390.3	358.7	310.8	260.6	225.5	192.8	176.5	168.3	169.4
12.5°	421.9	412.5	384.5	327.2	258.3	197.5	143.7	118.0	113.4	113.4	113.4
15°	428.9	414.8	375.1	289.8	202.2	130.9	101.7	99.3	102.8	106.3	107.5
17.5°	435.9	421.9	361.1	251.2	147.2	98.2	94.7	94.7	98.2	101.7	102.8
20°	444.1	428.9	341.2	210.3	105.2	92.3	91.1	90.0	92.3	95.8	97.0
22.5°	456.9	435.9	317.8	162.4	91.1	88.8	86.5	85.3	86.5	90.0	91.1
25°	468.6	445.2	293.3	120.4	85.3	83.0	81.8	80.6	80.6	83.0	84.1
27.5°	482.6	455.7	266.4	90.0	78.3	77.1	76.0	74.8	73.6	76.0	77.1
30°	500.1	465.1	237.2	76.0	71.3	70.1	68.9	67.8	66.6	67.8	68.9
32.5°	522.3	477.9	203.3	68.9	65.4	61.9	60.8	60.8	59.6	59.6	60.8
35°	551.6	492.0	167.1	64.3	59.6	56.1	52.6	51.4	51.4	51.4	52.6
37.5°	594.8	517.7	132.0	59.6	54.9	49.1	45.6	42.1	42.1	42.1	42.1
40°	654.4	545.7	102.8	56.1	51.4	43.2	38.6	33.9	31.6	30.4	31.6
42.5°	746.7	587.8	79.5	51.4	49.1	38.6	31.6	25.7	21.0	19.9	21.0
45°	848.4	633.4	63.1	47.9	44.4	32.7	24.5	17.5	12.9	11.7	12.9
47.5°	976.9	690.6	53.8	43.2	38.6	26.9	17.5	9.3	5.8	7.0	7.0
50°	1100.8	746.7	49.1	39.7	33.9	22.2	10.5	4.7	2.3	3.5	3.5
52.5°	1237.5	806.3	45.6	35.1	29.2	16.4	5.8	1.2	0.0	1.2	1.2
55°	1375.4	860.1	42.1	31.6	23.4	11.7	2.3	0.0	0.0	0.0	1.2
57.5°	1525.0	905.6	38.6	26.9	17.5	7.0	1.2	0.0	0.0	0.0	0.0
60°	1650.0	940.7	35.1	23.4	11.7	3.5	0.0	0.0	0.0	0.0	0.0
62.5°	1764.5	972.2	26.9	17.5	7.0	2.3	0.0	0.0	0.0	0.0	0.0
65°	1840.5	979.3	18.7	11.7	4.7	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1806.6	918.5	11.7	8.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0
70°	1588.1	771.3	8.2	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1111.3	497.8	7.0	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	586.6	180.0	4.7	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	208.0	39.7	2.3	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0
80°	45.6	8.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	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)