

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: P595050

Luminaire Tested: **IST-PA1B-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595050
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-PA1B-735-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA 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: 3509 lumens
Efficiency: N/A
Efficacy: 96.4 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

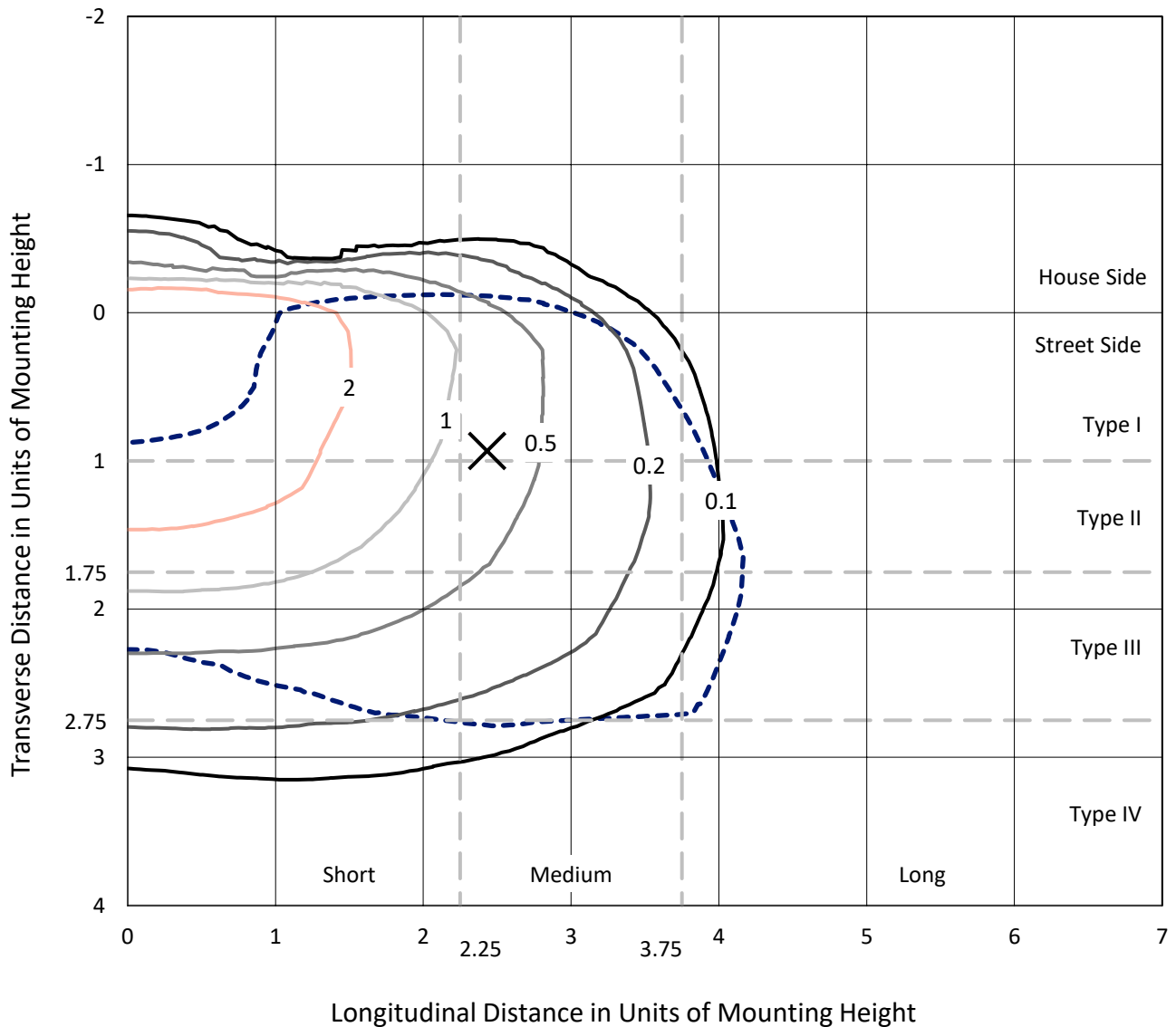
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

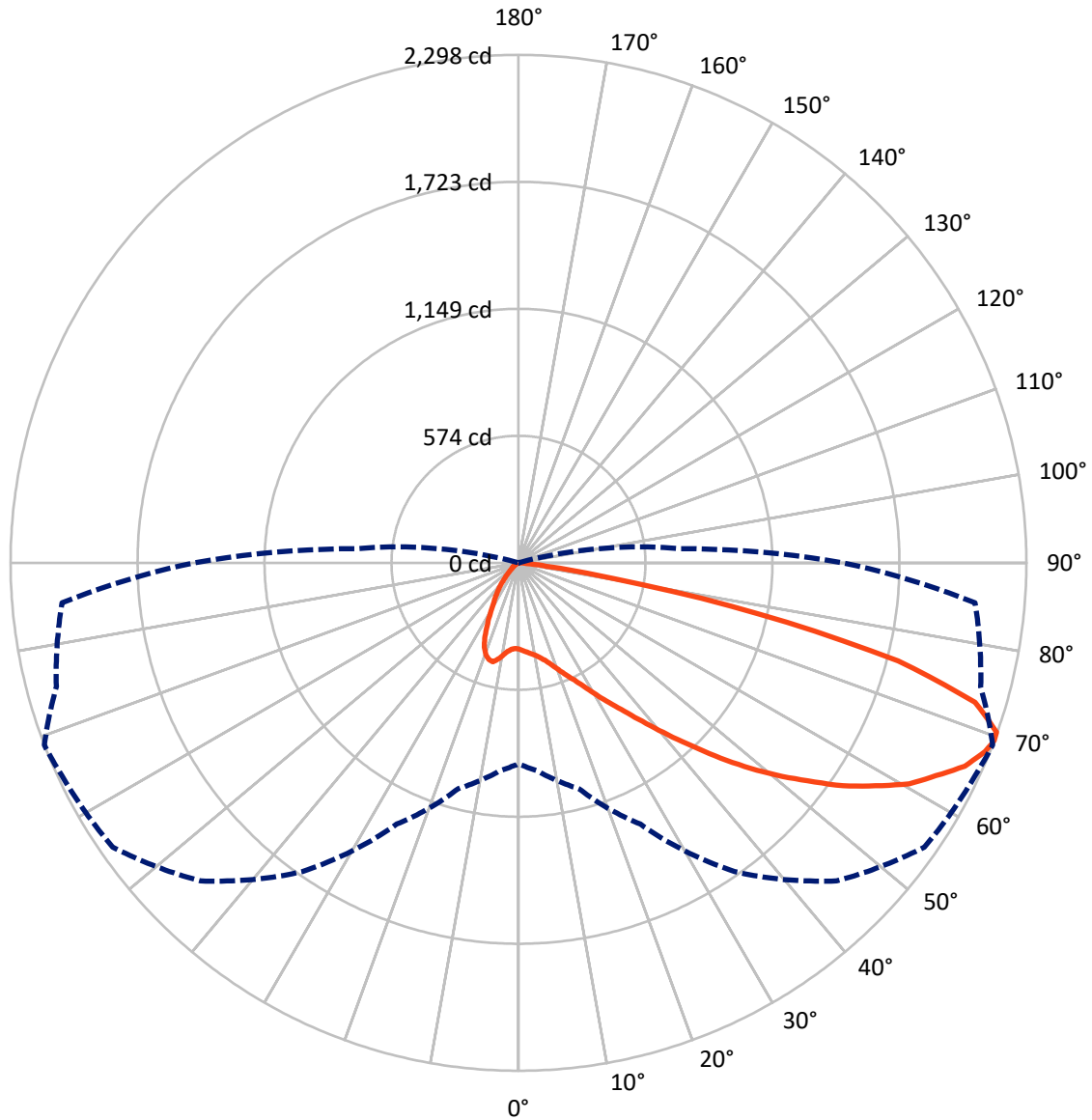
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 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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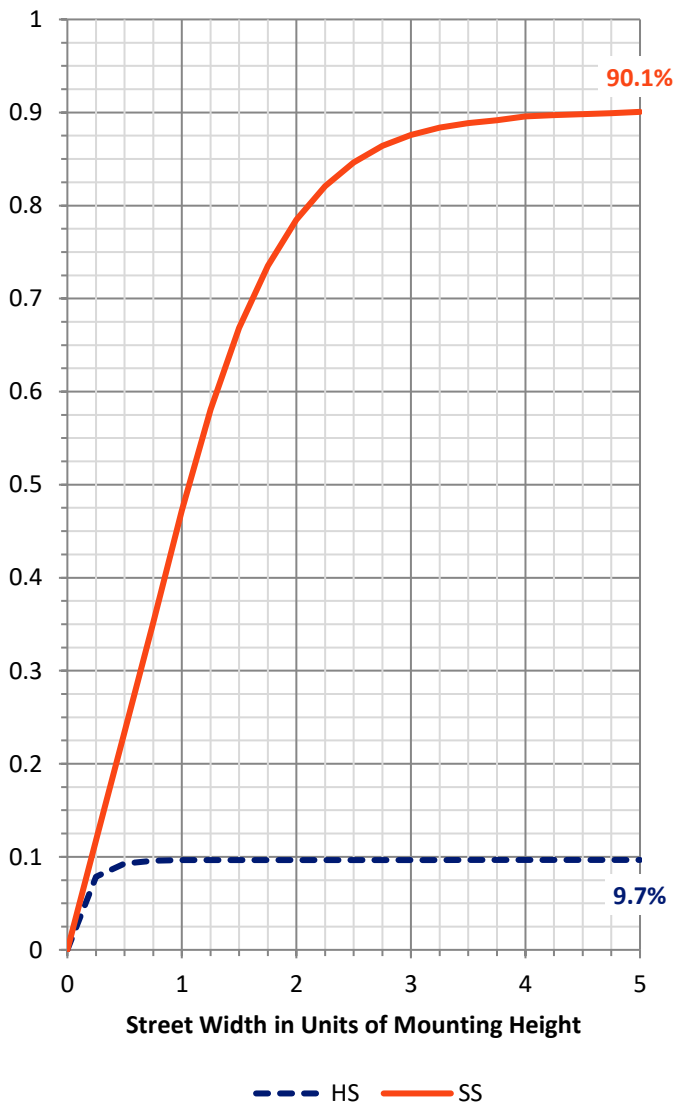
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	341.9	0.0	341.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3167.1	0.0	3167.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	3509.0	0.0	3509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.1
10°-20°	98.5	2.8
20°-30°	163.9	4.7
30°-40°	295.2	8.4
40°-50°	535.2	15.3
50°-60°	836.4	23.8
60°-70°	967.7	27.6
70°-80°	541.2	15.4
80°-90°	33.8	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°	3509.0	100.0
0°-180°	3509.0	100.0

Coefficient of Utilization

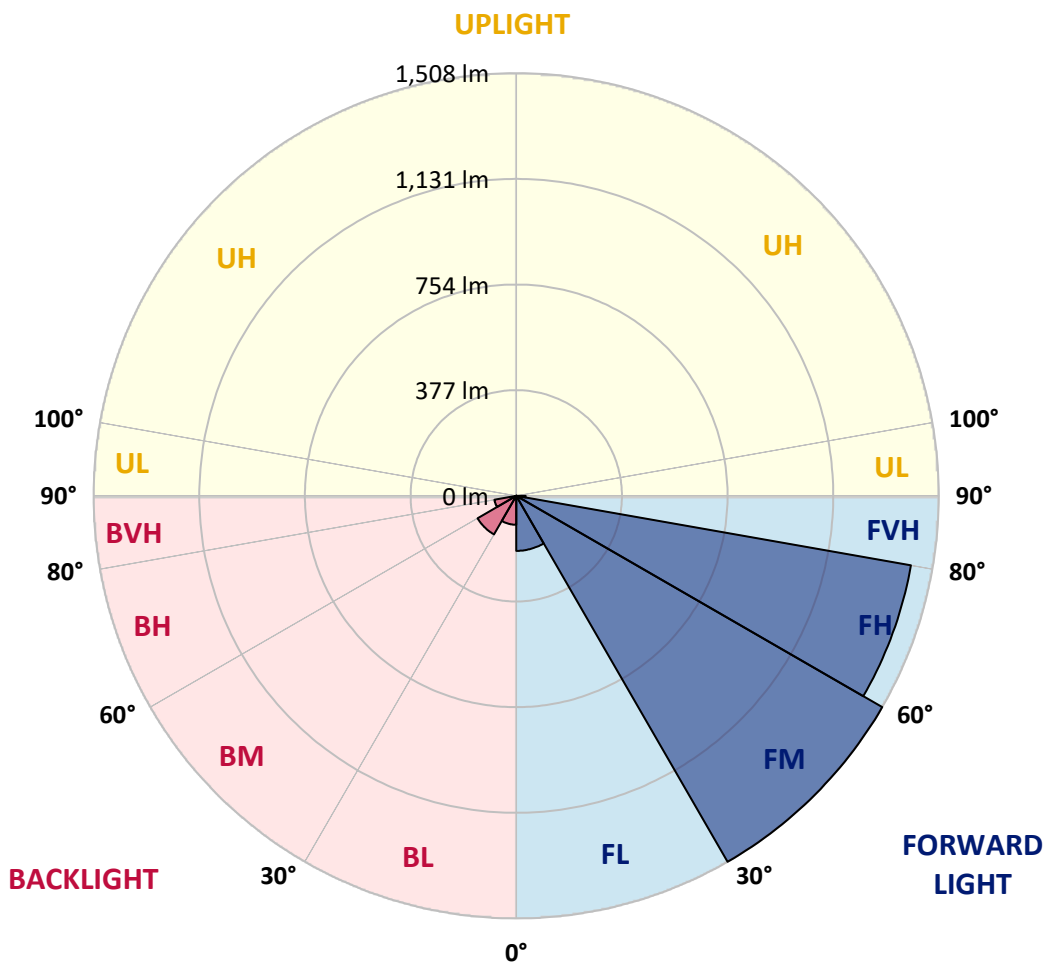


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.3	5.6			
FM (30°-60°)	1507.6	43.0			
FH (60°-80°)	1429.7	40.7			G1/1800
FVH (80°-90°)	33.5	1.0			G1/100
BL (0°-30°)	103.3	2.9	B0/110		
BM (30°-60°)	159.2	4.5	B0/220		
BH (60°-80°)	79.2	2.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	404.3	404.3	404.3	402.0	403.2	402.0	400.8	397.3	398.5	397.3	393.8
5°	390.3	391.5	395.0	397.3	403.2	405.5	406.7	406.7	405.5	403.2	400.8
7.5°	363.4	363.4	366.9	374.0	385.6	398.5	409.0	414.9	416.0	416.0	412.5
10°	356.4	356.4	361.1	365.8	377.5	392.7	409.0	423.0	425.4	427.7	426.5
12.5°	352.9	354.1	358.8	366.9	382.1	396.2	413.7	433.6	440.6	446.4	447.6
15°	357.6	357.6	362.3	370.5	388.0	407.8	430.1	452.3	459.3	467.4	473.3
17.5°	364.6	366.9	369.3	377.5	393.8	418.4	447.6	476.8	485.0	495.5	500.2
20°	376.3	376.3	378.6	385.6	403.2	432.4	473.3	508.4	515.4	522.4	528.2
22.5°	390.3	391.5	391.5	397.3	417.2	448.8	495.5	538.7	550.4	553.9	556.3
25°	432.4	430.1	421.9	418.4	433.6	467.4	522.4	575.0	587.8	591.3	586.6
27.5°	520.0	510.7	488.5	465.1	462.8	496.7	558.6	620.5	634.6	635.7	619.4
30°	629.9	631.1	594.8	544.6	510.7	528.2	598.3	677.8	691.8	686.0	660.3
32.5°	765.4	759.6	732.7	660.3	592.5	577.3	641.6	737.4	753.8	744.4	710.5
35°	881.1	884.6	851.9	787.7	702.3	653.3	694.2	804.0	823.9	807.5	765.4
37.5°	978.1	982.8	962.9	910.4	834.4	757.3	763.1	882.3	909.2	892.8	840.2
40°	1085.6	1089.2	1081.0	1023.7	955.9	881.1	855.4	972.3	1008.5	986.3	931.4
42.5°	1203.7	1216.5	1202.5	1156.9	1086.8	1022.5	984.0	1082.1	1118.4	1104.3	1030.7
45°	1365.0	1366.1	1349.8	1304.2	1231.7	1179.1	1132.4	1199.0	1245.8	1228.2	1141.7
47.5°	1484.2	1492.3	1483.0	1451.4	1393.0	1357.9	1293.7	1327.6	1376.6	1354.4	1256.3
50°	1575.3	1597.5	1589.3	1598.7	1569.5	1554.3	1456.1	1460.8	1508.7	1490.0	1373.1
52.5°	1625.6	1653.6	1655.9	1703.9	1728.4	1765.8	1613.9	1606.9	1637.2	1620.9	1492.3
55°	1618.5	1625.6	1684.0	1771.6	1867.5	1952.8	1768.1	1738.9	1781.0	1735.4	1618.5
57.5°	1550.8	1568.3	1671.1	1779.8	1949.3	2073.1	1901.3	1868.6	1903.7	1842.9	1748.3
60°	1453.8	1479.5	1611.5	1767.0	1997.2	2145.6	2031.1	1998.3	2029.9	1956.3	1895.5
62.5°	1366.1	1377.8	1499.3	1713.2	1969.1	2142.1	2131.6	2101.2	2119.9	2042.8	2021.7
65°	1241.1	1245.8	1366.1	1616.2	1907.2	2118.7	2186.5	2198.2	2218.0	2115.2	2111.7
67.5°	1048.3	1058.8	1178.0	1446.8	1804.4	2073.1	2229.7	2253.1	2276.5	2153.8	2128.1
69°	909.2	943.1	1057.6	1304.2	1705.0	2034.6	2241.4	2278.8	2297.5	2164.3	2073.1
70°	795.8	825.0	957.1	1194.3	1617.4	1991.3	2249.6	2275.3	2294.0	2142.1	1983.2
72.5°	399.7	437.1	618.2	871.8	1285.5	1793.8	2207.5	2179.5	2159.6	1970.3	1604.5
75°	154.3	160.1	265.3	496.7	804.0	1317.0	1885.0	1832.4	1774.0	1494.7	951.3
77.5°	85.3	84.1	115.7	219.7	342.4	643.9	1275.0	1190.8	1110.2	802.8	385.6
80°	36.2	38.6	50.3	105.2	180.0	223.2	619.4	550.4	438.2	254.8	92.3
82.5°	22.2	23.4	35.1	64.3	125.0	85.3	201.0	171.8	126.2	68.9	22.2
85°	7.0	8.2	24.5	43.2	60.8	35.1	45.6	39.7	35.1	29.2	7.0
87.5°	1.2	1.2	9.3	23.4	16.4	5.8	4.7	8.2	12.9	14.0	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°	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3	390.3
2.5°	392.7	390.3	388.0	386.8	386.8	384.5	383.3	382.1	382.1	381.0	381.0
5°	397.3	395.0	392.7	391.5	389.2	388.0	388.0	388.0	386.8	388.0	389.2
7.5°	409.0	405.5	404.3	403.2	403.2	399.7	393.8	378.6	363.4	358.8	354.1
10°	425.4	424.2	424.2	424.2	416.0	385.6	343.6	306.2	286.3	270.0	270.0
12.5°	448.8	448.8	447.6	444.1	402.0	328.4	262.9	206.8	174.1	155.4	157.8
15°	474.5	473.3	475.6	453.4	354.1	253.6	158.9	112.2	94.7	92.3	92.3
17.5°	501.3	503.7	501.3	428.9	291.0	156.6	94.7	85.3	83.0	83.0	83.0
20°	529.4	527.0	523.5	386.8	211.5	98.2	81.8	79.5	77.1	76.0	76.0
22.5°	557.4	555.1	531.7	333.1	132.1	80.6	77.1	72.5	68.9	67.8	67.8
25°	584.3	584.3	516.5	264.1	90.0	76.0	70.1	65.4	61.9	58.4	58.4
27.5°	618.2	620.5	492.0	184.6	76.0	70.1	63.1	56.1	51.4	49.1	49.1
30°	656.8	660.3	452.3	120.4	68.9	61.9	54.9	46.7	39.7	37.4	36.2
32.5°	702.3	705.8	406.7	79.5	61.9	53.8	45.6	35.1	28.0	26.9	25.7
35°	760.8	752.6	351.8	63.1	53.8	45.6	35.1	24.5	19.9	18.7	18.7
37.5°	833.2	815.7	288.6	54.9	45.6	36.2	25.7	16.4	12.9	12.9	11.7
40°	916.2	867.1	223.2	49.1	38.6	28.0	16.4	10.5	8.2	8.2	8.2
42.5°	1007.4	910.4	158.9	43.2	31.6	19.9	10.5	5.8	4.7	4.7	4.7
45°	1112.5	950.1	108.7	37.4	26.9	14.0	5.8	2.3	2.3	2.3	2.3
47.5°	1217.7	975.8	72.5	32.7	19.9	8.2	3.5	1.2	1.2	1.2	1.2
50°	1324.0	995.7	56.1	28.0	14.0	4.7	1.2	0.0	0.0	0.0	0.0
52.5°	1418.7	1009.7	45.6	23.4	9.3	3.5	1.2	0.0	0.0	0.0	0.0
55°	1500.5	1010.9	39.7	18.7	7.0	2.3	0.0	0.0	0.0	0.0	0.0
57.5°	1583.5	1001.5	33.9	14.0	4.7	1.2	0.0	0.0	0.0	0.0	0.0
60°	1633.7	977.0	26.9	10.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0
62.5°	1664.1	936.1	21.0	7.0	2.3	1.2	0.0	0.0	0.0	0.0	0.0
65°	1646.6	884.6	15.2	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0
67.5°	1564.8	805.2	10.5	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0
69°	1467.8	732.7	9.3	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0
70°	1382.5	676.6	8.2	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1029.6	435.9	7.0	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0
75°	578.5	146.1	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	217.4	37.4	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.9	9.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	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)