

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: P594970

Luminaire Tested: **IST-PA1A-740-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-740-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4079 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

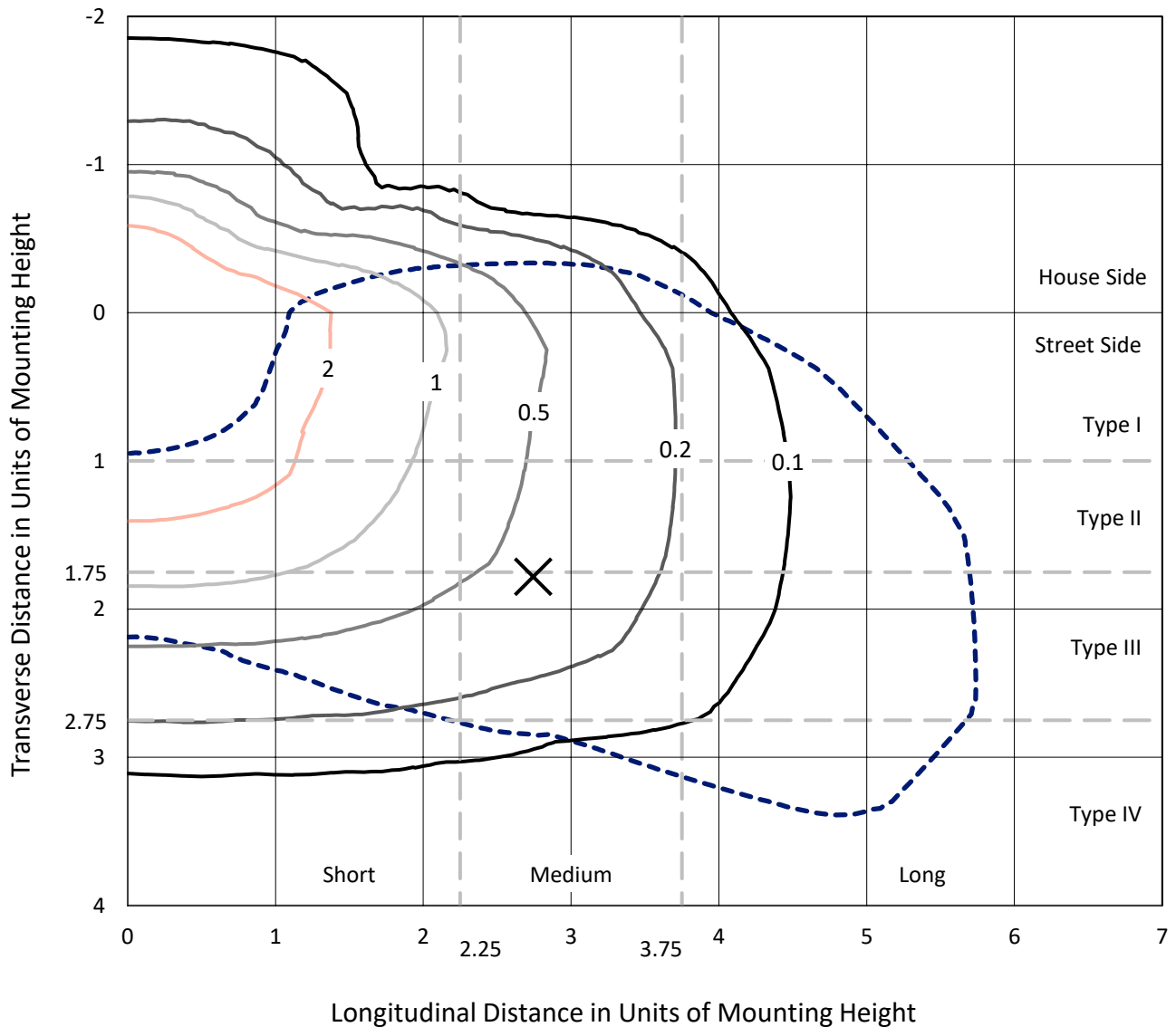
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

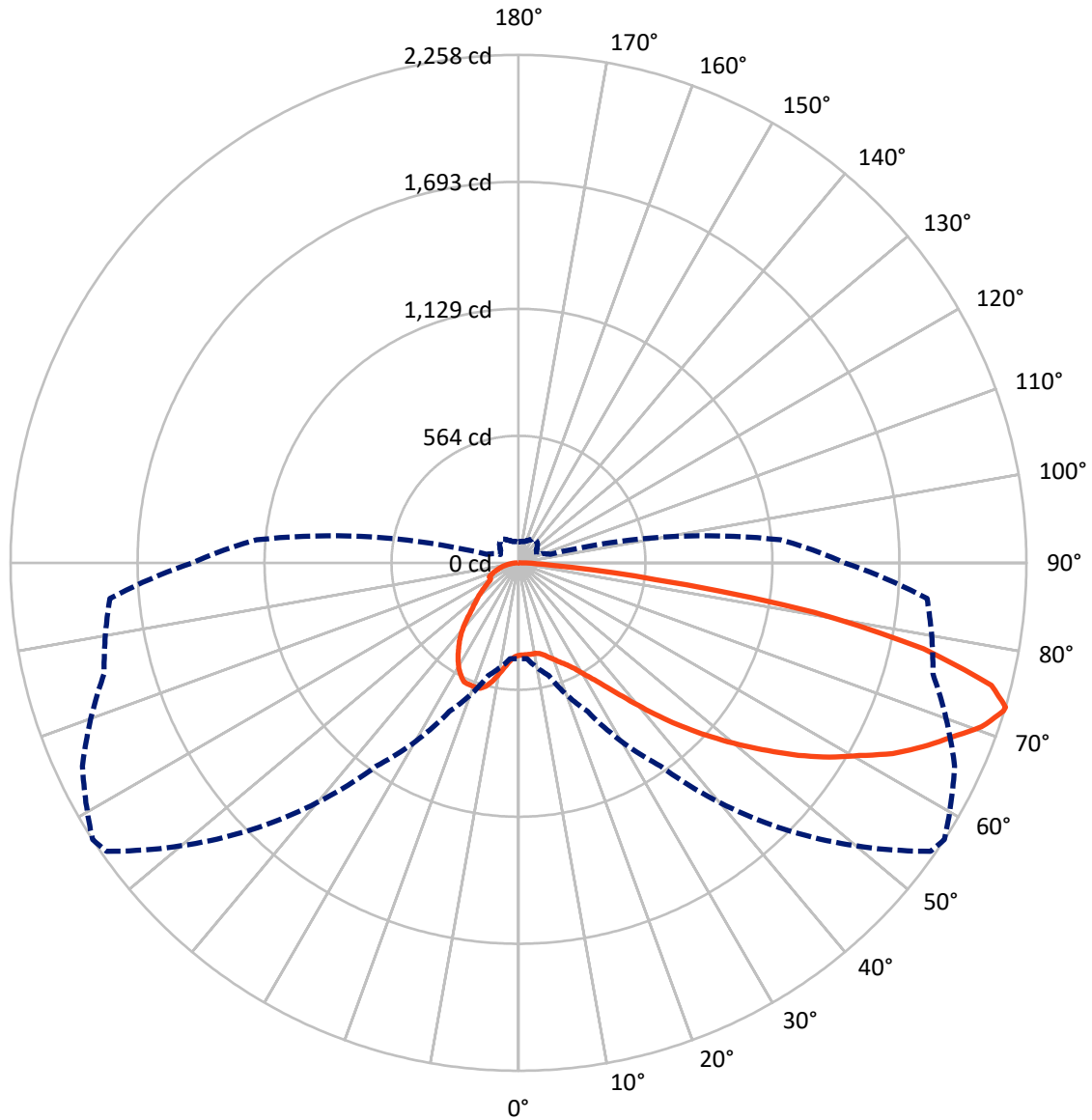
× Max cd
 - - - 1/2 Max cd



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 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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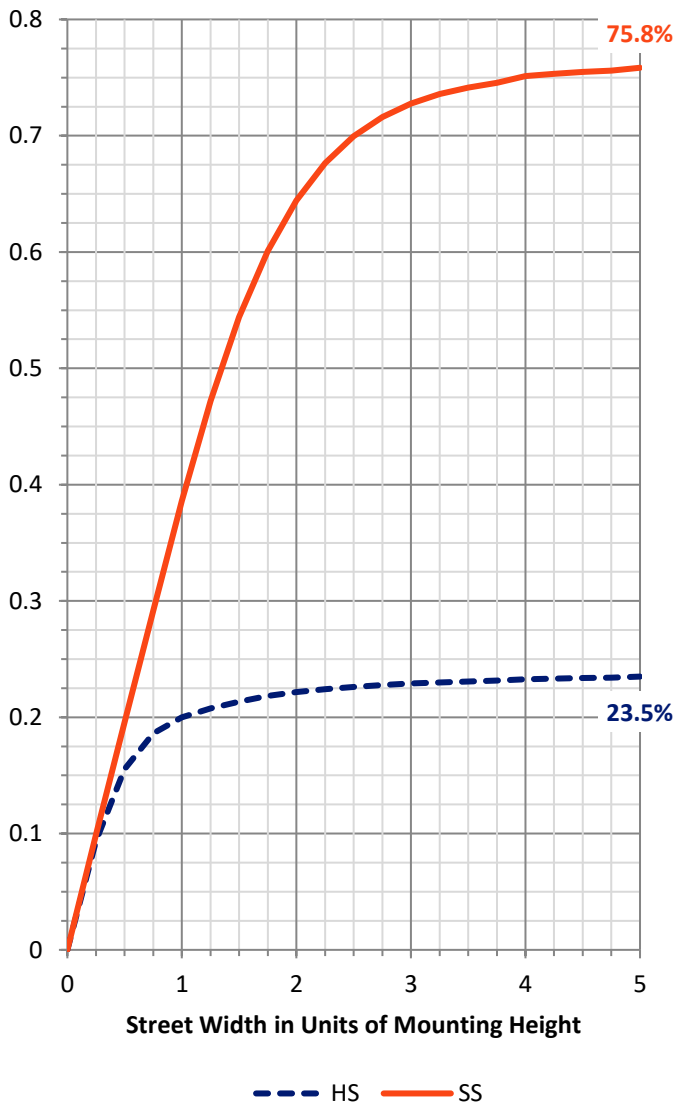
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	973.1	0.0	973.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3105.9	0.0	3105.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	4079.0	0.0	4079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	1.0
10°-20°	134.9	3.3
20°-30°	249.1	6.1
30°-40°	384.7	9.4
40°-50°	579.0	14.2
50°-60°	847.5	20.8
60°-70°	1000.8	24.5
70°-80°	716.5	17.6
80°-90°	125.5	3.1
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°	4079.0	100.0
0°-180°	4079.0	100.0

Coefficient of Utilization

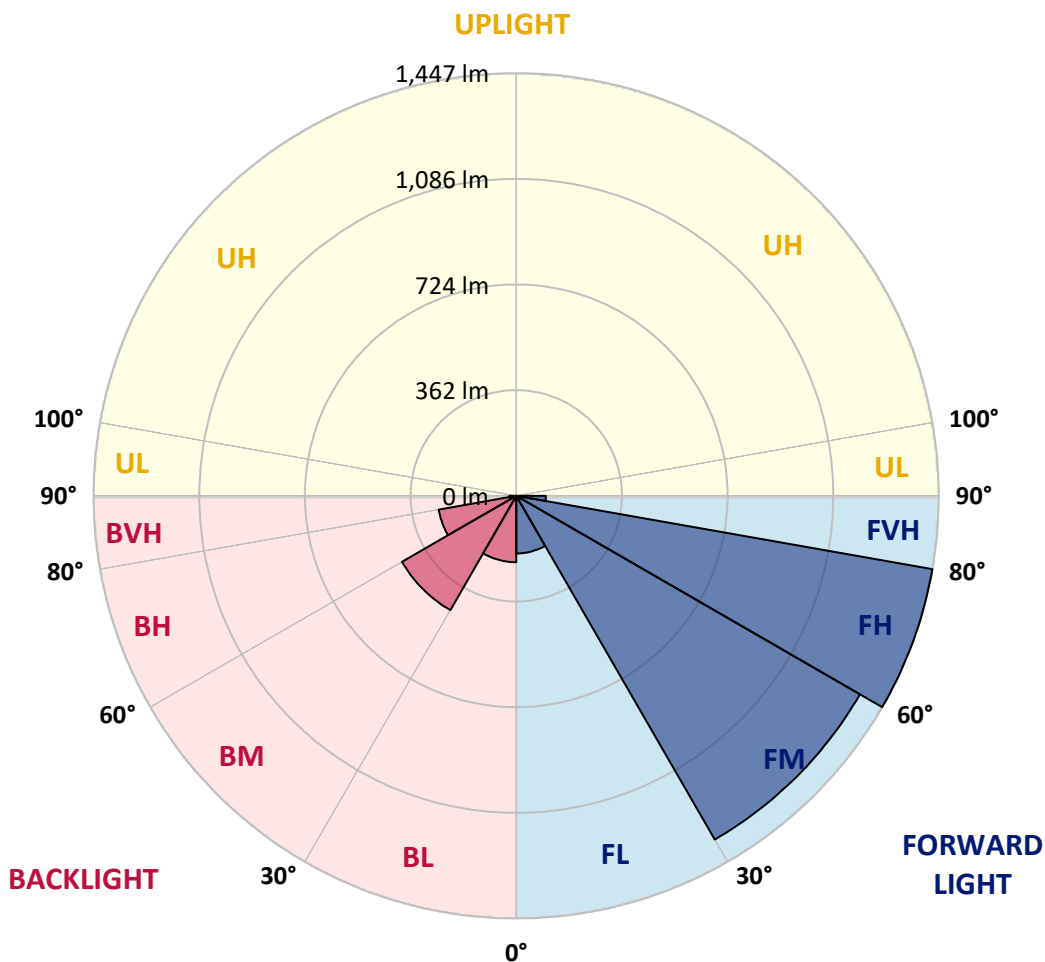


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.7	4.8			
FM (30°-60°)	1359.2	33.3			
FH (60°-80°)	1447.4	35.5			G1/1800
FVH (80°-90°)	101.6	2.5			G2/225
BL (0°-30°)	227.4	5.6	B1/500		
BM (30°-60°)	451.9	11.1	B1/1000		
BH (60°-80°)	269.8	6.6	B1/500		G1/500
BVH (80°-90°)	24.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	406.0	408.0	407.0	408.0	411.0	409.0	409.0	410.0	411.0	410.0	412.0
5°	389.0	390.0	392.0	396.0	403.0	405.0	410.0	410.0	412.0	414.0	417.0
7.5°	361.0	363.0	367.0	371.0	383.0	395.0	408.0	410.0	417.0	422.0	424.0
10°	356.0	358.0	359.0	365.0	377.0	389.0	405.0	409.0	422.0	430.0	439.0
12.5°	351.0	353.0	356.0	364.0	379.0	392.0	409.0	413.0	429.0	445.0	456.0
15°	355.0	356.0	359.0	367.0	382.0	400.0	422.0	425.0	443.0	463.0	480.0
17.5°	365.0	366.0	365.0	372.0	386.0	407.0	437.0	442.0	464.0	484.0	501.0
20°	388.0	389.0	385.0	385.0	395.0	416.0	453.0	460.0	487.0	509.0	526.0
22.5°	438.0	436.0	426.0	413.0	413.0	430.0	471.0	481.0	515.0	532.9	547.9
25°	509.0	509.0	493.0	469.0	453.0	451.0	492.0	503.0	542.9	564.9	573.9
27.5°	594.9	595.9	569.9	537.9	507.0	492.0	522.0	532.9	577.9	600.9	603.9
30°	670.9	671.9	645.9	615.9	577.9	544.9	561.9	573.9	625.9	643.9	633.9
32.5°	746.9	747.9	729.9	688.9	648.9	607.9	612.9	619.9	672.9	689.9	673.9
35°	812.9	815.9	797.9	766.9	724.9	687.9	678.9	679.9	727.9	738.9	717.9
37.5°	879.9	879.9	868.9	839.9	803.9	762.9	750.9	753.9	796.9	807.9	777.9
40°	964.9	968.9	962.9	926.9	885.9	851.9	839.9	843.9	890.9	884.9	852.9
42.5°	1067.9	1076.9	1066.9	1027.9	983.9	945.9	945.9	945.9	985.9	986.9	938.9
45°	1199.9	1199.9	1189.9	1155.9	1097.9	1059.9	1046.9	1049.9	1084.9	1088.9	1032.9
47.5°	1309.9	1319.9	1308.9	1283.9	1237.9	1201.9	1160.9	1155.9	1184.9	1184.9	1136.9
50°	1398.9	1416.9	1407.9	1418.9	1385.9	1367.9	1283.9	1269.9	1279.9	1289.9	1236.9
52.5°	1472.9	1486.9	1483.9	1515.9	1531.9	1541.9	1408.9	1386.9	1394.9	1393.9	1345.9
55°	1477.9	1482.9	1527.9	1599.8	1662.8	1709.8	1534.9	1510.9	1502.9	1498.9	1461.9
57.5°	1448.9	1451.9	1541.9	1626.8	1763.8	1817.8	1653.8	1629.8	1618.8	1604.8	1589.8
60°	1378.9	1393.9	1511.9	1642.8	1823.8	1901.8	1764.8	1739.8	1731.8	1701.8	1735.8
62.5°	1289.9	1296.9	1414.9	1609.8	1831.8	1937.8	1881.8	1866.8	1841.8	1798.8	1865.8
65°	1163.9	1162.9	1266.9	1512.9	1790.8	1955.8	1980.8	1972.8	1941.8	1867.8	1981.8
67.5°	955.9	978.9	1080.9	1340.9	1691.8	1973.8	2081.8	2071.8	2022.8	1929.8	2036.8
70°	728.9	742.9	858.9	1082.9	1494.9	1924.8	2180.8	2183.8	2094.8	1942.8	2012.8
72.5°	465.0	489.0	580.9	788.9	1196.9	1742.8	2239.8	2253.8	2134.8	1924.8	1863.8
73°	426.0	428.0	518.0	729.9	1103.9	1677.8	2235.8	2257.8	2138.8	1906.8	1822.8
75°	254.0	265.0	319.0	485.0	787.9	1347.9	2127.8	2171.8	2117.8	1826.8	1597.8
77.5°	119.0	127.0	157.0	256.0	429.0	810.9	1788.8	1840.8	1876.8	1598.8	1217.9
80°	63.0	64.0	77.0	129.0	230.0	334.0	1246.9	1332.9	1383.9	1203.9	818.9
82.5°	53.0	53.0	60.0	83.0	147.0	130.0	514.0	611.9	749.9	592.9	322.0
85°	43.0	44.0	60.0	62.0	105.0	67.0	123.0	154.0	291.0	262.0	36.0
87.5°	14.0	16.0	34.0	44.0	56.0	26.0	31.0	34.0	34.0	50.0	12.0
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°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	413.0	413.0	414.0	415.0	417.0	417.0	419.0	420.0	422.0	423.0	420.0
5°	417.0	419.0	421.0	427.0	434.0	440.0	446.0	451.0	456.0	459.0	458.0
7.5°	428.0	431.0	439.0	450.0	464.0	473.0	482.0	491.0	495.0	497.0	497.0
10°	443.0	449.0	464.0	482.0	498.0	512.0	519.0	525.0	526.9	528.9	526.9
12.5°	464.0	472.0	495.0	518.0	535.9	542.9	541.9	533.9	523.0	521.0	519.0
15°	491.0	501.0	526.9	553.9	567.9	558.9	535.9	527.9	526.0	531.9	529.9
17.5°	514.0	526.0	557.9	585.9	582.9	551.9	544.9	548.9	546.9	547.9	547.9
20°	535.9	552.9	586.9	605.9	579.9	559.9	553.9	548.9	542.9	544.9	542.9
22.5°	563.9	575.9	614.9	615.9	575.9	559.9	546.9	536.9	534.9	535.9	536.9
25°	585.9	604.9	638.9	608.9	575.9	543.9	526.0	524.0	525.0	530.9	528.9
27.5°	615.9	634.9	657.9	604.9	551.9	518.0	511.0	510.0	503.0	505.0	505.0
30°	643.9	666.9	667.9	604.9	522.0	496.0	486.0	468.0	453.0	456.0	455.0
32.5°	681.9	701.9	669.9	580.9	488.0	467.0	440.0	412.0	405.0	409.0	410.0
35°	725.9	741.9	671.9	540.9	454.0	426.0	377.0	361.0	360.0	363.0	366.0
37.5°	783.9	792.9	686.9	495.0	421.0	362.0	324.0	320.0	311.0	305.0	306.0
40°	854.9	843.9	715.9	454.0	382.0	304.0	288.0	277.0	260.0	243.0	246.0
42.5°	933.9	902.9	724.9	421.0	329.0	268.0	253.0	236.0	215.0	197.0	196.0
45°	1018.9	968.9	716.9	395.0	276.0	241.0	225.0	205.0	180.0	165.0	165.0
47.5°	1119.9	1031.9	691.9	374.0	239.0	217.0	197.0	177.0	160.0	146.0	146.0
50°	1230.9	1104.9	673.9	337.0	213.0	194.0	174.0	158.0	145.0	134.0	134.0
52.5°	1347.9	1173.9	658.9	283.0	190.0	173.0	159.0	146.0	135.0	121.0	119.0
55°	1466.9	1239.9	665.9	231.0	169.0	158.0	149.0	136.0	132.0	129.0	127.0
57.5°	1590.8	1311.9	682.9	189.0	151.0	150.0	146.0	155.0	164.0	158.0	155.0
60°	1687.8	1367.9	684.9	159.0	140.0	158.0	178.0	181.0	157.0	143.0	142.0
62.5°	1764.8	1420.9	637.9	138.0	143.0	186.0	190.0	160.0	136.0	130.0	130.0
65°	1804.8	1439.9	513.0	126.0	149.0	178.0	172.0	144.0	127.0	126.0	126.0
67.5°	1784.8	1424.9	359.0	113.0	132.0	154.0	154.0	132.0	117.0	122.0	120.0
70°	1688.8	1350.9	237.0	102.0	116.0	139.0	143.0	123.0	109.0	112.0	109.0
72.5°	1488.9	1218.9	156.0	90.0	100.0	123.0	133.0	113.0	100.0	99.0	96.0
73°	1449.9	1168.9	147.0	88.0	97.0	119.0	130.0	111.0	98.0	95.0	93.0
75°	1229.9	974.9	111.0	79.0	86.0	107.0	121.0	104.0	90.0	86.0	84.0
77.5°	895.9	675.9	83.0	67.0	72.0	93.0	107.0	95.0	80.0	75.0	74.0
80°	558.9	368.0	62.0	54.0	57.0	78.0	94.0	85.0	69.0	63.0	62.0
82.5°	219.0	120.0	43.0	40.0	42.0	59.0	79.0	74.0	58.0	53.0	50.0
85°	36.0	41.0	28.0	27.0	27.0	42.0	60.0	57.0	39.0	34.0	30.0
87.5°	10.0	19.0	11.0	10.0	10.0	18.0	33.0	26.0	16.0	13.0	12.0
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)