

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: P595085

Luminaire Tested: **IST-PA1B-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-827-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

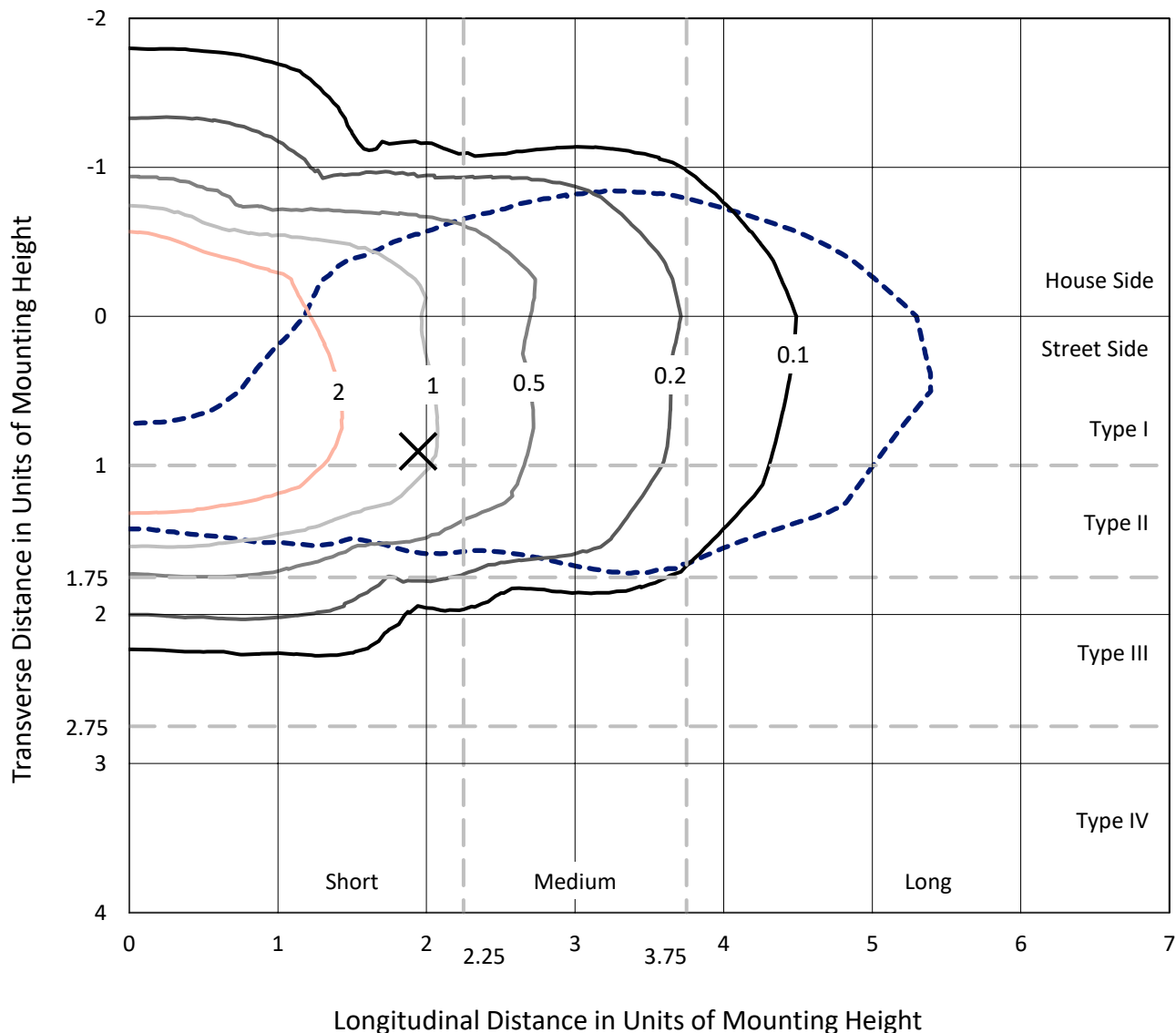
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

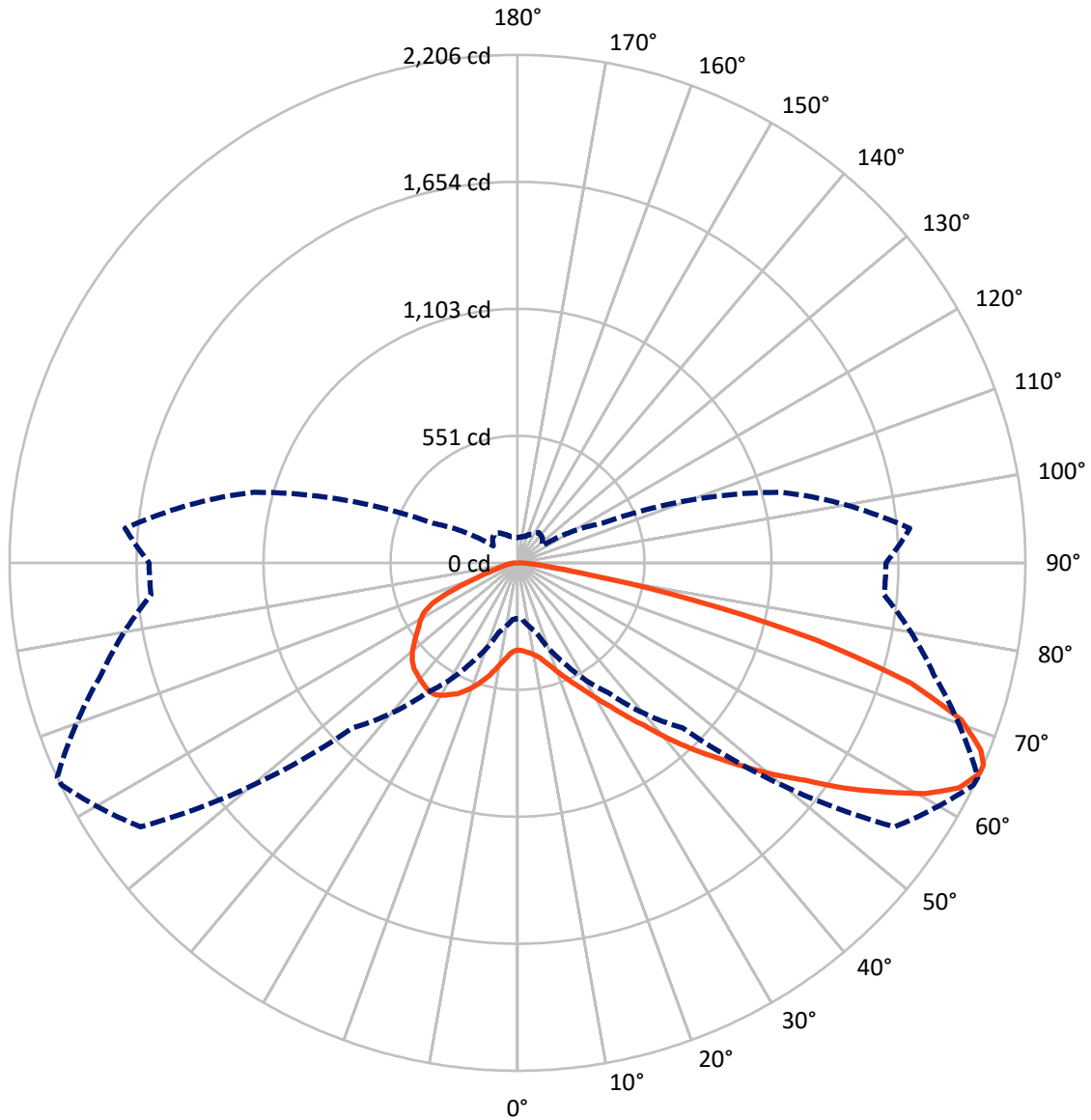
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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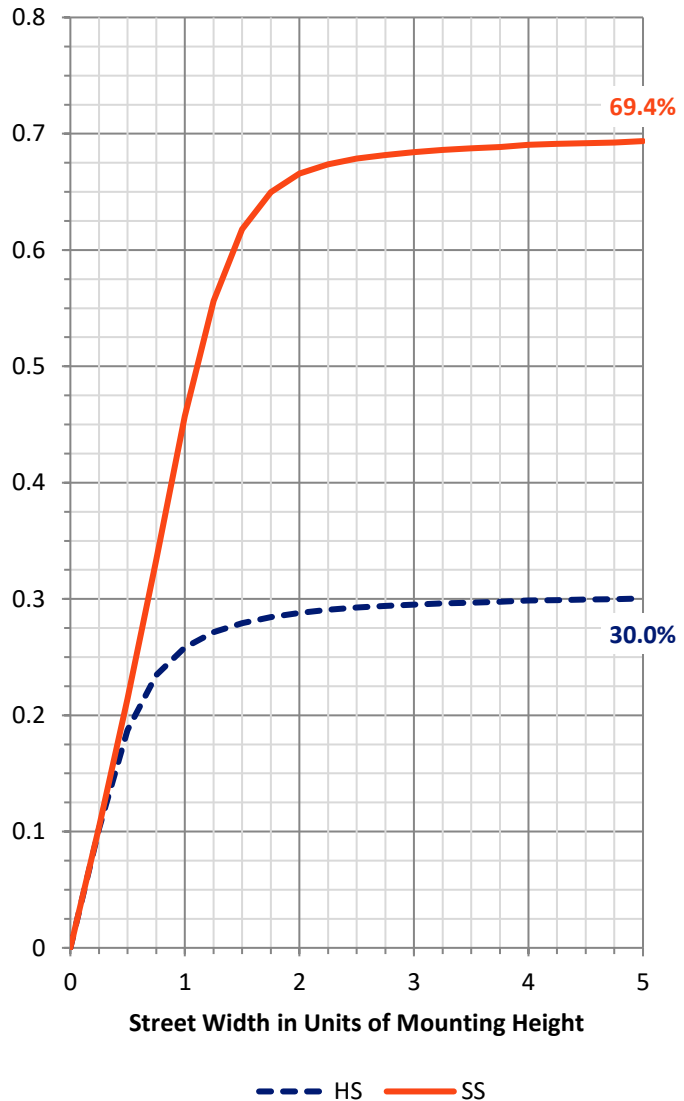
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1154.4	0.0	1154.4
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2647.6	0.0	2647.6
	% Fixture	69.6	0.0	69.6
Total	Lumens	3802.0	0.0	3802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.0
10°-20°	134.8	3.5
20°-30°	263.9	6.9
30°-40°	431.2	11.3
40°-50°	684.4	18.0
50°-60°	880.3	23.2
60°-70°	793.9	20.9
70°-80°	492.4	13.0
80°-90°	82.5	2.2
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°	3802.0	100.0
0°-180°	3802.0	100.0

Coefficient of Utilization



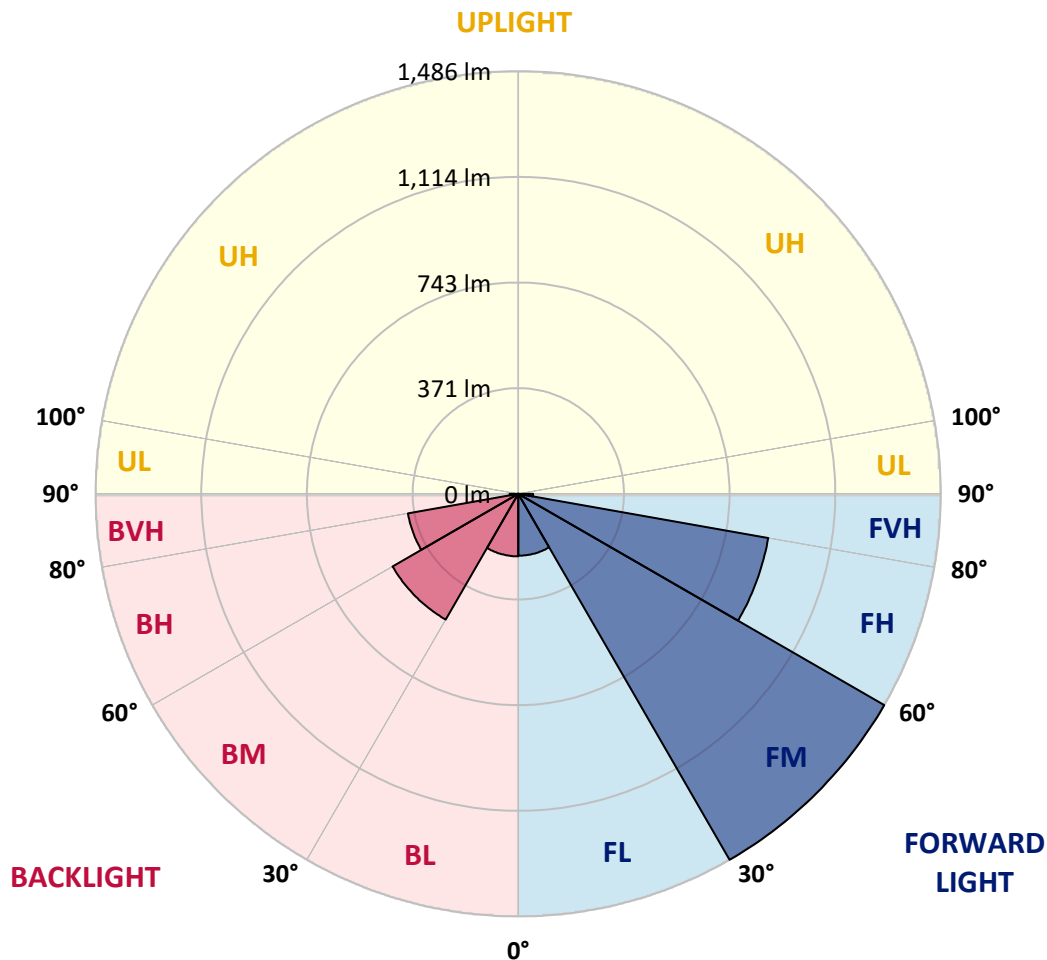
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.4	5.7			
FM (30°-60°)	1485.6	39.1			
FH (60°-80°)	892.3	23.5			G1/1800
FVH (80°-90°)	52.2	1.4			G1/100
BL (0°-30°)	219.9	5.8	B1/500		
BM (30°-60°)	510.3	13.4	B1/1000		
BH (60°-80°)	393.9	10.4	B1/500		G1/500
BVH (80°-90°)	30.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	379.9	380.8	381.7	379.9	381.7	382.7	380.8	380.8	381.7	379.9	379.9
5°	377.1	378.0	379.9	380.8	384.5	386.3	387.3	387.3	388.2	387.3	388.2
7.5°	369.7	369.7	373.4	375.3	380.8	387.3	391.0	396.5	396.5	397.4	400.2
10°	377.1	377.1	379.9	382.7	387.3	392.8	398.3	404.8	406.6	413.1	416.8
12.5°	388.2	390.0	393.7	397.4	402.9	409.4	414.0	420.5	421.4	427.8	435.2
15°	406.6	408.5	410.3	414.9	422.3	430.6	438.9	443.5	445.4	449.0	454.6
17.5°	434.3	436.1	437.1	439.8	445.4	456.4	468.4	472.1	473.9	473.9	478.6
20°	481.3	480.4	478.6	473.0	473.0	483.2	499.8	506.2	508.1	504.4	501.6
22.5°	535.7	534.8	527.4	521.0	516.4	518.2	534.8	545.9	544.9	537.6	526.5
25°	606.7	608.6	596.6	580.0	566.1	562.5	572.6	583.7	585.5	571.7	553.2
27.5°	691.5	688.8	682.3	655.6	628.8	612.3	617.8	629.8	630.7	615.9	586.4
30°	791.1	786.5	769.9	742.3	700.8	677.7	673.1	683.3	686.0	661.1	618.7
32.5°	901.8	897.2	876.0	833.5	788.4	749.6	734.9	748.7	746.9	718.3	659.3
35°	1035.5	1034.6	995.8	943.3	886.1	834.5	814.2	814.2	819.7	777.3	710.9
37.5°	1214.4	1221.7	1164.6	1082.5	1002.3	933.1	899.0	897.2	898.1	852.0	769.0
40°	1375.7	1373.0	1339.8	1263.2	1146.1	1057.6	1006.9	995.8	998.6	939.6	844.6
42.5°	1468.9	1471.6	1463.3	1430.1	1327.8	1216.2	1129.5	1100.0	1100.9	1027.2	916.5
45°	1526.9	1529.7	1528.8	1545.4	1504.8	1399.7	1276.1	1207.9	1204.2	1126.8	1001.4
47.5°	1560.1	1562.0	1574.0	1608.1	1641.3	1617.3	1438.4	1327.8	1320.4	1219.9	1086.2
50°	1523.3	1524.2	1572.1	1653.3	1734.4	1807.2	1604.4	1446.7	1444.9	1323.2	1169.2
52.5°	1329.6	1346.2	1452.3	1621.9	1803.6	1941.9	1796.2	1586.9	1571.2	1420.9	1252.2
55°	1085.3	1092.6	1214.4	1430.1	1790.7	2024.9	1940.9	1738.1	1727.0	1529.7	1333.3
57.5°	847.4	854.8	999.5	1179.3	1593.3	2020.2	2043.3	1901.3	1876.4	1624.7	1414.4
60°	546.8	569.8	737.7	958.9	1290.0	1880.1	2094.9	2058.1	2035.0	1718.7	1483.6
62.5°	371.6	375.3	480.4	710.9	965.4	1527.9	2091.2	2154.9	2151.2	1812.8	1552.8
65°	241.6	247.1	310.7	481.3	690.6	1014.3	1999.0	2201.9	2205.6	1870.9	1597.9
66°	204.7	208.4	257.3	404.8	604.9	804.0	1917.9	2198.2	2205.6	1897.6	1611.8
67.5°	178.0	180.7	205.6	298.7	494.2	578.1	1706.7	2149.3	2170.5	1922.5	1629.3
70°	153.1	156.8	179.8	203.8	353.2	337.5	1080.7	2023.9	2045.1	1934.5	1640.4
72.5°	126.3	129.1	152.1	184.4	256.3	226.8	476.7	1732.6	1786.0	1890.2	1622.8
75°	99.6	101.4	122.6	154.0	196.4	177.0	207.5	1270.6	1337.9	1666.2	1554.6
77.5°	77.5	78.4	95.0	119.9	179.8	137.4	128.2	618.7	782.8	1287.2	1369.3
80°	53.5	55.3	70.1	90.4	131.9	108.8	85.8	241.6	307.0	854.8	1038.2
82.5°	35.0	36.0	47.9	68.2	87.6	104.2	56.2	117.1	129.1	393.7	450.0
85°	24.0	24.0	34.1	42.4	59.9	69.2	36.9	61.8	67.3	149.4	54.4
87.5°	12.0	12.0	16.6	22.1	28.6	26.7	22.1	22.1	22.1	48.9	15.7
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°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	380.8	380.8	381.7	382.7	383.6	383.6	384.5	384.5	383.6	384.5	385.4
5°	389.1	390.0	391.9	394.6	399.3	403.9	408.5	411.2	414.0	414.9	413.1
7.5°	402.0	403.9	410.3	417.7	425.1	436.1	442.6	446.3	448.1	450.0	448.1
10°	418.6	422.3	431.5	444.4	457.3	471.2	478.6	484.1	485.0	486.9	485.0
12.5°	438.0	444.4	458.3	476.7	492.4	506.2	511.7	508.1	499.8	496.1	495.1
15°	461.0	467.5	486.9	509.9	528.3	534.8	526.5	514.5	505.3	504.4	503.4
17.5°	481.3	490.5	517.3	541.3	558.8	552.3	530.2	522.8	520.0	523.7	522.8
20°	507.1	514.5	541.3	570.8	580.0	555.1	539.4	534.8	532.0	532.0	530.2
22.5°	528.3	533.9	566.1	598.4	592.9	556.9	545.9	536.6	527.4	526.5	523.7
25°	553.2	555.1	589.2	624.2	594.7	558.8	539.4	523.7	514.5	511.7	512.7
27.5°	576.3	580.9	610.4	641.8	590.1	548.6	517.3	497.0	483.2	482.2	482.2
30°	605.8	605.8	632.5	661.1	580.0	522.8	481.3	451.8	440.7	439.8	438.0
32.5°	639.0	633.5	659.3	675.0	557.8	487.8	432.4	399.3	381.7	378.0	375.3
35°	685.1	673.1	691.5	677.7	535.7	438.0	370.7	332.9	320.0	314.4	314.4
37.5°	738.6	721.1	740.4	669.4	501.6	379.9	306.1	277.5	263.7	255.4	258.2
40°	801.3	779.1	790.2	660.2	464.7	315.3	252.6	235.1	218.5	207.5	207.5
42.5°	875.0	838.2	846.5	651.0	412.2	259.1	218.5	206.5	193.6	182.6	185.3
45°	946.0	910.1	901.8	641.8	356.8	221.3	204.7	196.4	184.4	171.5	171.5
47.5°	1028.1	982.0	950.6	625.2	302.4	209.3	208.4	196.4	173.3	154.9	153.1
50°	1105.6	1063.1	994.9	600.3	272.0	219.5	207.5	178.9	156.8	144.8	143.8
52.5°	1187.6	1143.4	1030.9	569.8	256.3	214.8	190.9	164.1	147.5	135.5	132.8
55°	1268.8	1245.7	1063.1	540.3	231.4	200.1	177.0	154.9	137.4	126.3	124.5
57.5°	1361.0	1351.7	1090.8	510.8	192.7	181.6	166.9	148.5	131.9	123.6	122.6
60°	1441.2	1473.5	1124.0	488.7	164.1	167.8	162.3	147.5	135.5	126.3	126.3
62.5°	1526.0	1590.6	1153.5	460.1	142.9	159.5	163.2	146.6	130.9	122.6	122.6
65°	1599.8	1710.4	1183.9	407.6	128.2	153.1	160.4	136.5	118.0	111.6	109.7
66°	1631.1	1744.5	1193.2	375.3	122.6	148.5	155.8	130.9	112.5	107.0	106.0
67.5°	1668.0	1798.0	1204.2	306.1	114.3	138.3	145.7	122.6	103.3	99.6	97.7
70°	1719.7	1809.1	1197.8	200.1	99.6	118.9	130.0	109.7	92.2	89.4	86.7
72.5°	1725.2	1733.5	1133.2	126.3	86.7	102.3	114.3	98.7	81.1	78.4	76.5
75°	1633.9	1536.2	958.9	90.4	76.5	90.4	100.5	85.8	67.3	63.6	61.8
77.5°	1395.1	1219.0	689.7	67.3	66.4	77.5	83.9	74.7	56.2	53.5	52.6
80°	979.2	827.1	345.8	50.7	52.6	64.5	70.1	62.7	47.0	43.3	41.5
82.5°	396.5	351.3	118.9	37.8	39.6	48.9	59.9	51.6	36.0	31.4	27.7
85°	45.2	76.5	51.6	25.8	26.7	33.2	40.6	31.4	21.2	17.5	14.8
87.5°	9.2	16.6	18.4	10.1	9.2	12.9	18.4	11.1	7.4	2.8	3.7
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)