

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: P595096

Luminaire Tested: **IST-PA1B-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595096
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-PA1B-830-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066 lumens
Efficiency: N/A
Efficacy: 111.7 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

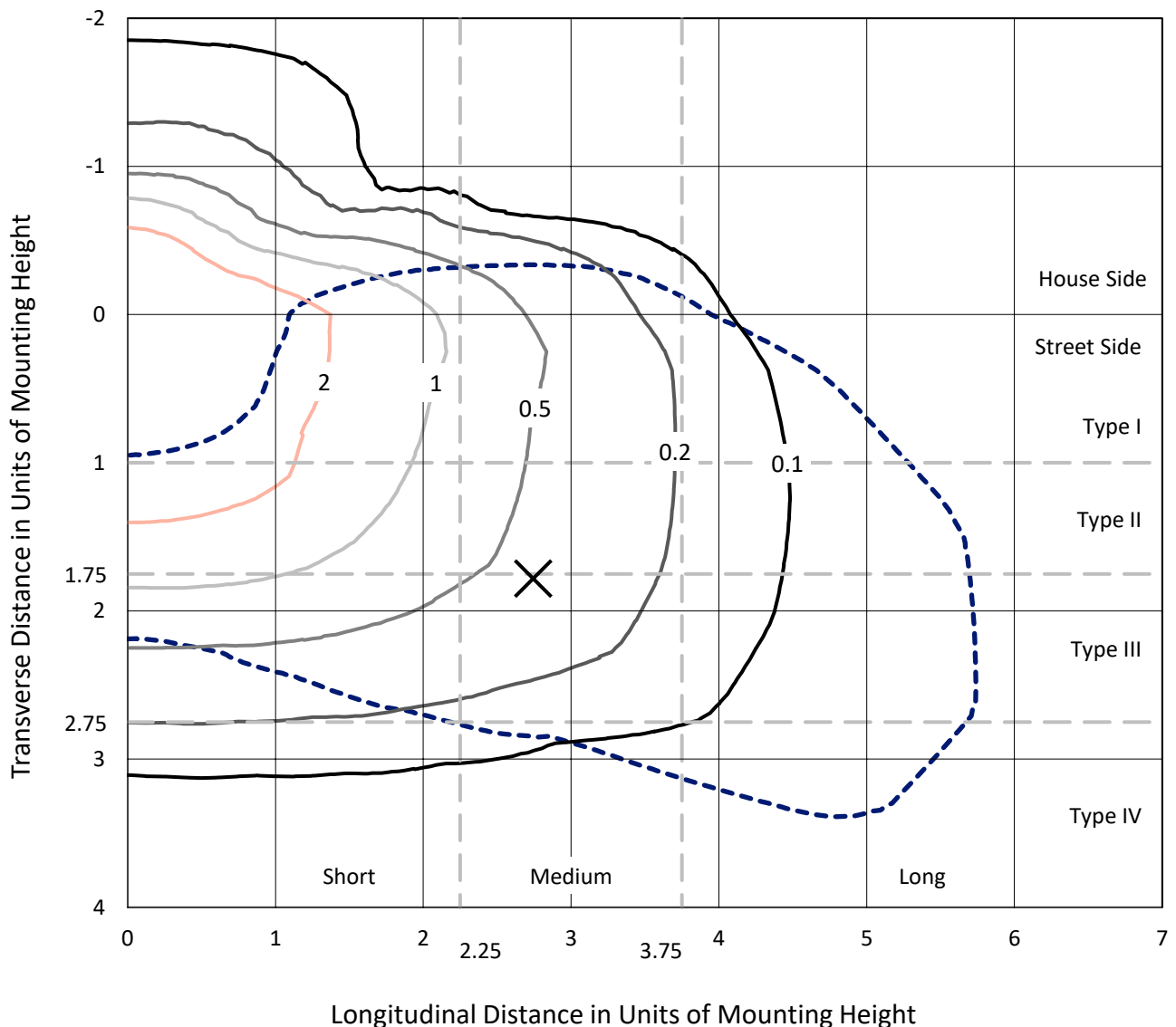
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

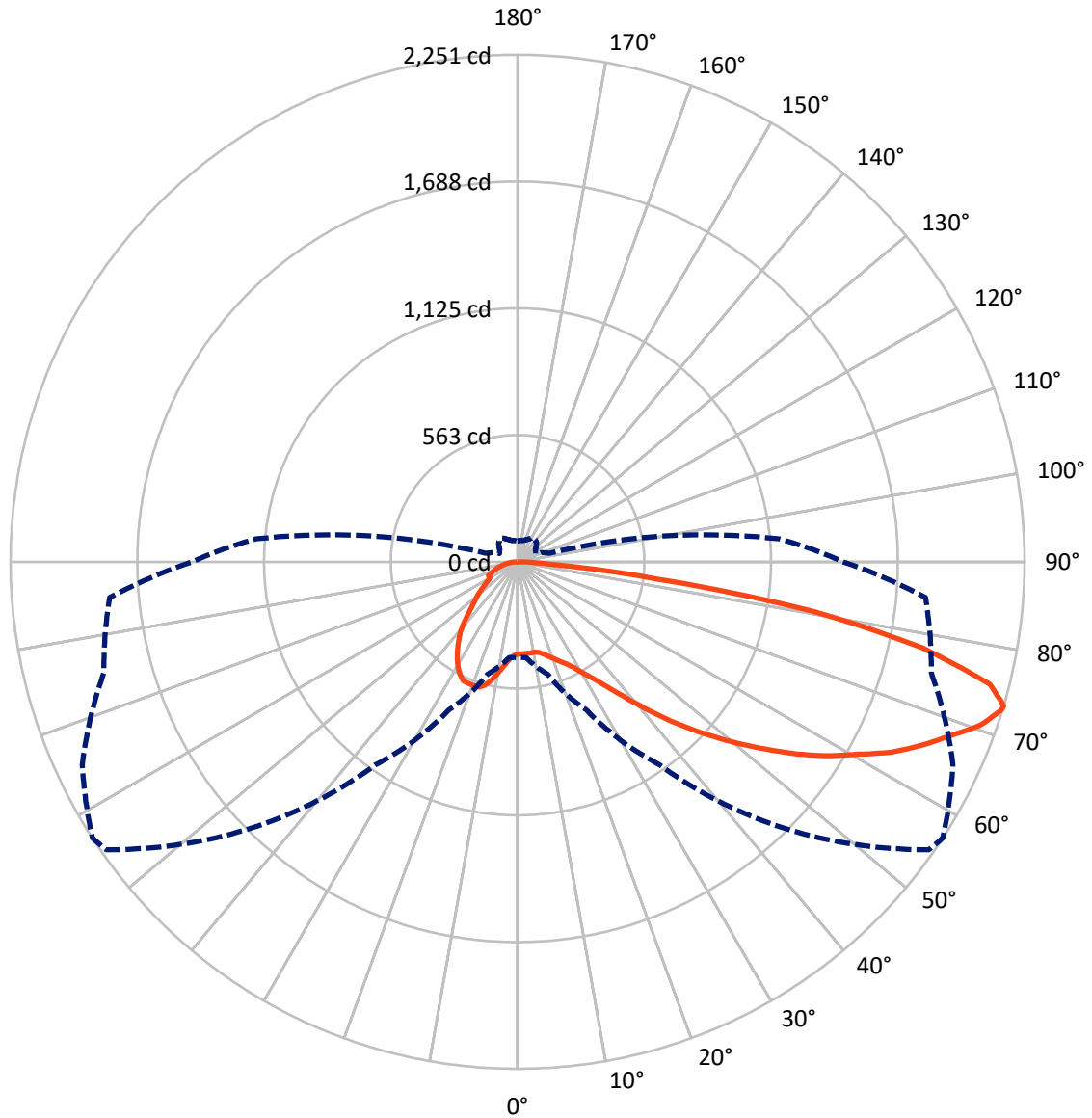
× Max cd
 - - - 1/2 Max cd



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

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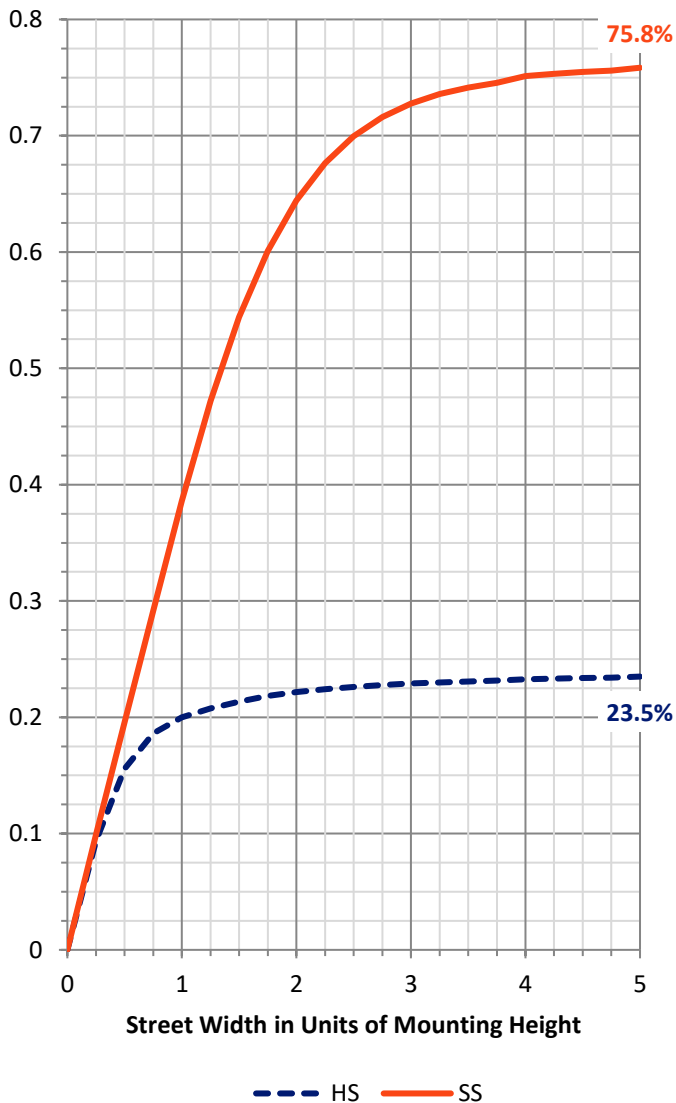
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.0	0.0	970.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3096.0	0.0	3096.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	4066.0	0.0	4066.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.0
10°-20°	134.5	3.3
20°-30°	248.3	6.1
30°-40°	383.4	9.4
40°-50°	577.2	14.2
50°-60°	844.7	20.8
60°-70°	997.6	24.5
70°-80°	714.2	17.6
80°-90°	125.1	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°	4066.0	100.0
0°-180°	4066.0	100.0

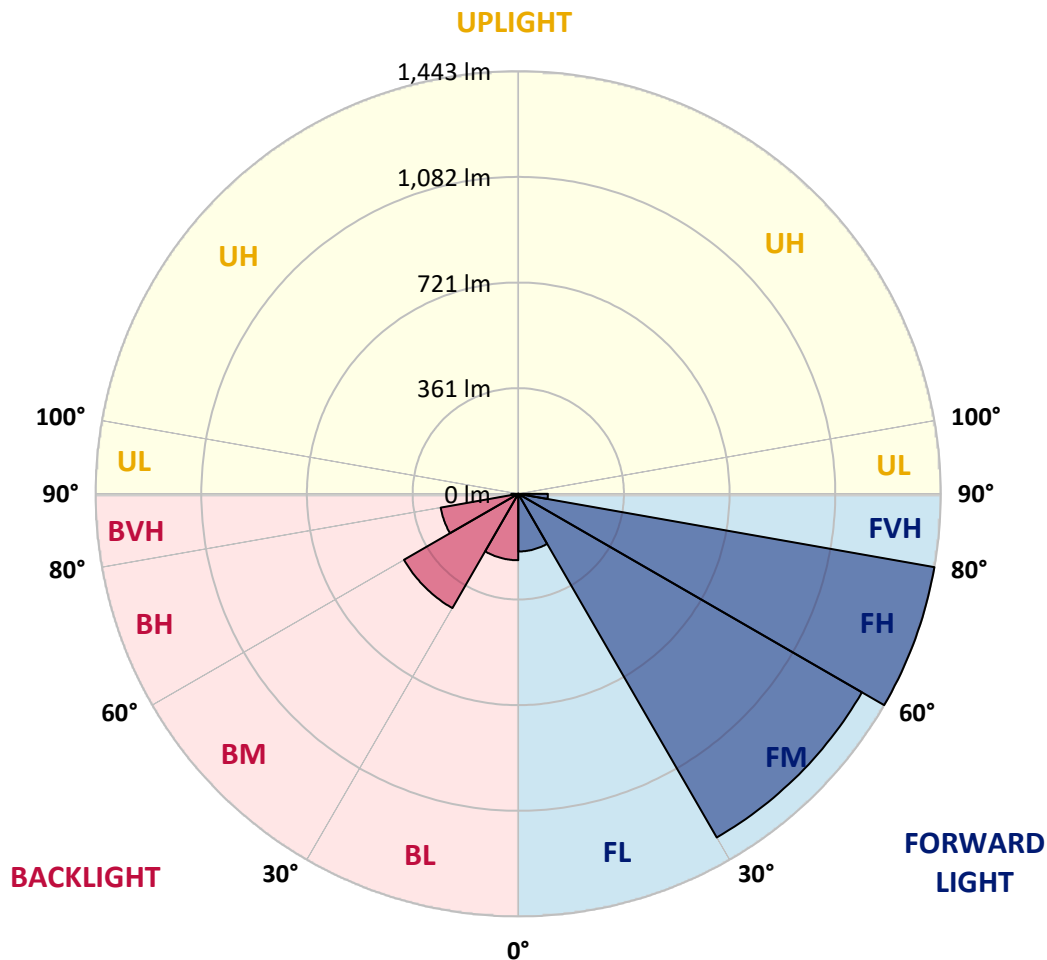


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.0	4.8			
FM (30°-60°)	1354.9	33.3			
FH (60°-80°)	1442.8	35.5			G1/1800
FVH (80°-90°)	101.2	2.5			G2/225
BL (0°-30°)	226.7	5.6	B1/500		
BM (30°-60°)	450.5	11.1	B1/1000		
BH (60°-80°)	268.9	6.6	B1/500		G1/500
BVH (80°-90°)	23.9	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°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	404.7	406.7	405.7	406.7	409.7	407.7	407.7	408.7	409.7	408.7	410.6
5°	387.7	388.7	390.7	394.7	401.7	403.7	408.7	408.7	410.6	412.6	415.6
7.5°	359.8	361.8	365.8	369.8	381.7	393.7	406.7	408.7	415.6	420.6	422.6
10°	354.8	356.8	357.8	363.8	375.8	387.7	403.7	407.7	420.6	428.6	437.6
12.5°	349.8	351.8	354.8	362.8	377.8	390.7	407.7	411.6	427.6	443.5	454.5
15°	353.8	354.8	357.8	365.8	380.7	398.7	420.6	423.6	441.5	461.5	478.4
17.5°	363.8	364.8	363.8	370.8	384.7	405.7	435.6	440.5	462.5	482.4	499.4
20°	386.7	387.7	383.7	383.7	393.7	414.6	451.5	458.5	485.4	507.3	524.3
22.5°	436.6	434.6	424.6	411.6	411.6	428.6	469.5	479.4	513.3	531.3	546.2
25°	507.3	507.3	491.4	467.5	451.5	449.5	490.4	501.3	541.2	563.1	572.1
27.5°	593.0	594.0	568.1	536.2	505.3	490.4	520.3	531.3	576.1	599.0	602.0
30°	668.8	669.8	643.9	614.0	576.1	543.2	560.2	572.1	623.9	641.9	631.9
32.5°	744.5	745.5	727.6	686.7	646.9	606.0	611.0	618.0	670.8	687.7	671.8
35°	810.3	813.3	795.4	764.5	722.6	685.7	676.8	677.8	725.6	736.6	715.6
37.5°	877.1	877.1	866.1	837.2	801.4	760.5	748.5	751.5	794.4	805.3	775.4
40°	961.8	965.8	959.8	924.0	883.1	849.2	837.2	841.2	888.1	882.1	850.2
42.5°	1064.5	1073.5	1063.5	1024.6	980.8	942.9	942.9	942.9	982.8	983.8	935.9
45°	1196.1	1196.1	1186.1	1152.2	1094.4	1056.5	1043.6	1046.6	1081.4	1085.4	1029.6
47.5°	1305.7	1315.7	1304.7	1279.8	1233.9	1198.1	1157.2	1152.2	1181.1	1181.1	1133.3
50°	1394.4	1412.3	1403.4	1414.3	1381.5	1363.5	1279.8	1265.8	1275.8	1285.8	1232.9
52.5°	1468.2	1482.1	1479.1	1511.0	1527.0	1536.9	1404.4	1382.4	1390.4	1389.4	1341.6
55°	1473.1	1478.1	1523.0	1594.7	1657.5	1704.4	1530.0	1506.0	1498.1	1494.1	1457.2
57.5°	1444.2	1447.2	1536.9	1621.7	1758.2	1812.0	1648.6	1624.7	1613.7	1599.7	1584.8
60°	1374.5	1389.4	1507.0	1637.6	1818.0	1895.8	1759.2	1734.3	1726.3	1696.4	1730.3
62.5°	1285.8	1292.7	1410.4	1604.7	1826.0	1931.6	1875.8	1860.9	1836.0	1793.1	1859.9
65°	1160.2	1159.2	1262.8	1508.0	1785.1	1949.6	1974.5	1966.5	1935.6	1861.9	1975.5
67.5°	952.9	975.8	1077.5	1336.6	1686.4	1967.5	2075.2	2065.2	2016.4	1923.7	2030.3
70°	726.6	740.6	856.2	1079.4	1490.1	1918.7	2173.8	2176.8	2088.1	1936.6	2006.4
72.5°	463.5	487.4	579.1	786.4	1193.1	1737.3	2232.6	2246.6	2128.0	1918.7	1857.9
73°	424.6	426.6	516.3	727.6	1100.4	1672.5	2228.7	2250.6	2132.0	1900.7	1817.0
75°	253.2	264.1	318.0	483.4	785.4	1343.6	2121.0	2164.9	2111.0	1821.0	1592.8
77.5°	118.6	126.6	156.5	255.2	427.6	808.3	1783.1	1835.0	1870.8	1593.8	1214.0
80°	62.8	63.8	76.7	128.6	229.2	332.9	1242.9	1328.6	1379.5	1200.0	816.3
82.5°	52.8	52.8	59.8	82.7	146.5	129.6	512.3	610.0	747.5	591.1	320.9
85°	42.9	43.9	59.8	61.8	104.7	66.8	122.6	153.5	290.0	261.1	35.9
87.5°	14.0	15.9	33.9	43.9	55.8	25.9	30.9	33.9	33.9	49.8	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°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	411.6	411.6	412.6	413.6	415.6	415.6	417.6	418.6	420.6	421.6	418.6
5°	415.6	417.6	419.6	425.6	432.6	438.6	444.5	449.5	454.5	457.5	456.5
7.5°	426.6	429.6	437.6	448.5	462.5	471.4	480.4	489.4	493.4	495.4	495.4
10°	441.5	447.5	462.5	480.4	496.4	510.3	517.3	523.3	525.3	527.3	525.3
12.5°	462.5	470.5	493.4	516.3	534.2	541.2	540.2	532.2	521.3	519.3	517.3
15°	489.4	499.4	525.3	552.2	566.1	557.2	534.2	526.3	524.3	530.3	528.3
17.5°	512.3	524.3	556.2	584.1	581.1	550.2	543.2	547.2	545.2	546.2	546.2
20°	534.2	551.2	585.1	604.0	578.1	558.2	552.2	547.2	541.2	543.2	541.2
22.5°	562.1	574.1	613.0	614.0	574.1	558.2	545.2	535.2	533.2	534.2	535.2
25°	584.1	603.0	636.9	607.0	574.1	542.2	524.3	522.3	523.3	529.3	527.3
27.5°	614.0	632.9	655.8	603.0	550.2	516.3	509.3	508.3	501.3	503.3	503.3
30°	641.9	664.8	665.8	603.0	520.3	494.4	484.4	466.5	451.5	454.5	453.5
32.5°	679.8	699.7	667.8	579.1	486.4	465.5	438.6	410.6	403.7	407.7	408.7
35°	723.6	739.6	669.8	539.2	452.5	424.6	375.8	359.8	358.8	361.8	364.8
37.5°	781.4	790.4	684.7	493.4	419.6	360.8	322.9	318.9	310.0	304.0	305.0
40°	852.2	841.2	713.7	452.5	380.7	303.0	287.1	276.1	259.1	242.2	245.2
42.5°	930.9	900.0	722.6	419.6	327.9	267.1	252.2	235.2	214.3	196.4	195.4
45°	1015.7	965.8	714.6	393.7	275.1	240.2	224.3	204.3	179.4	164.5	164.5
47.5°	1116.3	1028.6	689.7	372.8	238.2	216.3	196.4	176.4	159.5	145.5	145.5
50°	1227.0	1101.4	671.8	335.9	212.3	193.4	173.4	157.5	144.5	133.6	133.6
52.5°	1343.6	1170.1	656.8	282.1	189.4	172.4	158.5	145.5	134.6	120.6	118.6
55°	1462.2	1235.9	663.8	230.2	168.4	157.5	148.5	135.6	131.6	128.6	126.6
57.5°	1585.8	1307.7	680.8	188.4	150.5	149.5	145.5	154.5	163.5	157.5	154.5
60°	1682.5	1363.5	682.8	158.5	139.5	157.5	177.4	180.4	156.5	142.5	141.5
62.5°	1759.2	1416.3	635.9	137.5	142.5	185.4	189.4	159.5	135.6	129.6	129.6
65°	1799.1	1435.3	511.3	125.6	148.5	177.4	171.4	143.5	126.6	125.6	125.6
67.5°	1779.1	1420.3	357.8	112.6	131.6	153.5	153.5	131.6	116.6	121.6	119.6
70°	1683.5	1346.6	236.2	101.7	115.6	138.5	142.5	122.6	108.6	111.6	108.6
72.5°	1484.1	1215.0	155.5	89.7	99.7	122.6	132.6	112.6	99.7	98.7	95.7
73°	1445.2	1165.2	146.5	87.7	96.7	118.6	129.6	110.6	97.7	94.7	92.7
75°	1226.0	971.8	110.6	78.7	85.7	106.6	120.6	103.7	89.7	85.7	83.7
77.5°	893.1	673.8	82.7	66.8	71.8	92.7	106.6	94.7	79.7	74.8	73.8
80°	557.2	366.8	61.8	53.8	56.8	77.7	93.7	84.7	68.8	62.8	61.8
82.5°	218.3	119.6	42.9	39.9	41.9	58.8	78.7	73.8	57.8	52.8	49.8
85°	35.9	40.9	27.9	26.9	26.9	41.9	59.8	56.8	38.9	33.9	29.9
87.5°	10.0	18.9	11.0	10.0	10.0	17.9	32.9	25.9	15.9	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)