

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: P595004

Luminaire Tested: **IST-PA1A-830-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595004  
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-PA1A-830-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3276 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

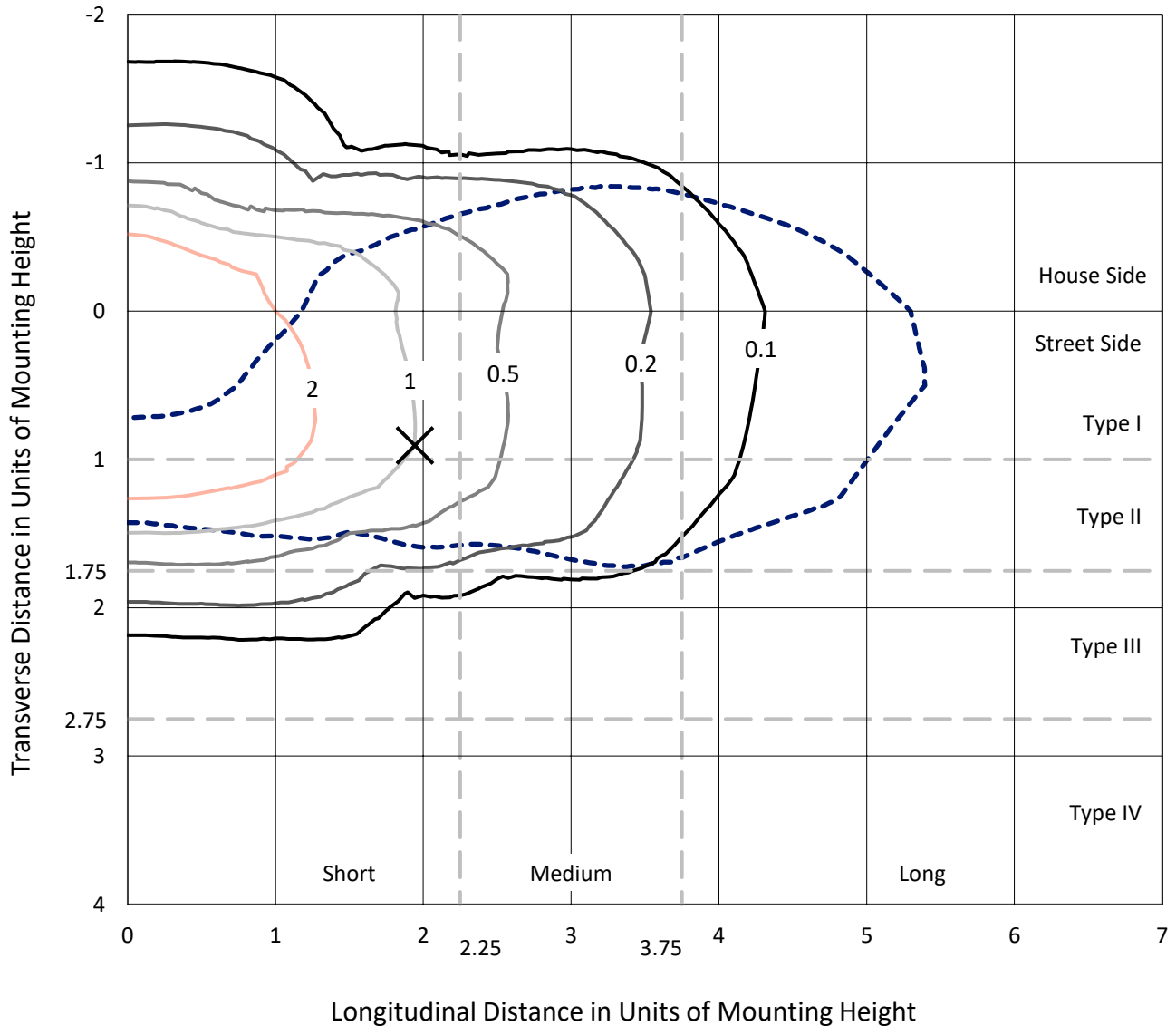
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P595004  
 CATALOG NUMBER: IST-PA1A-830-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

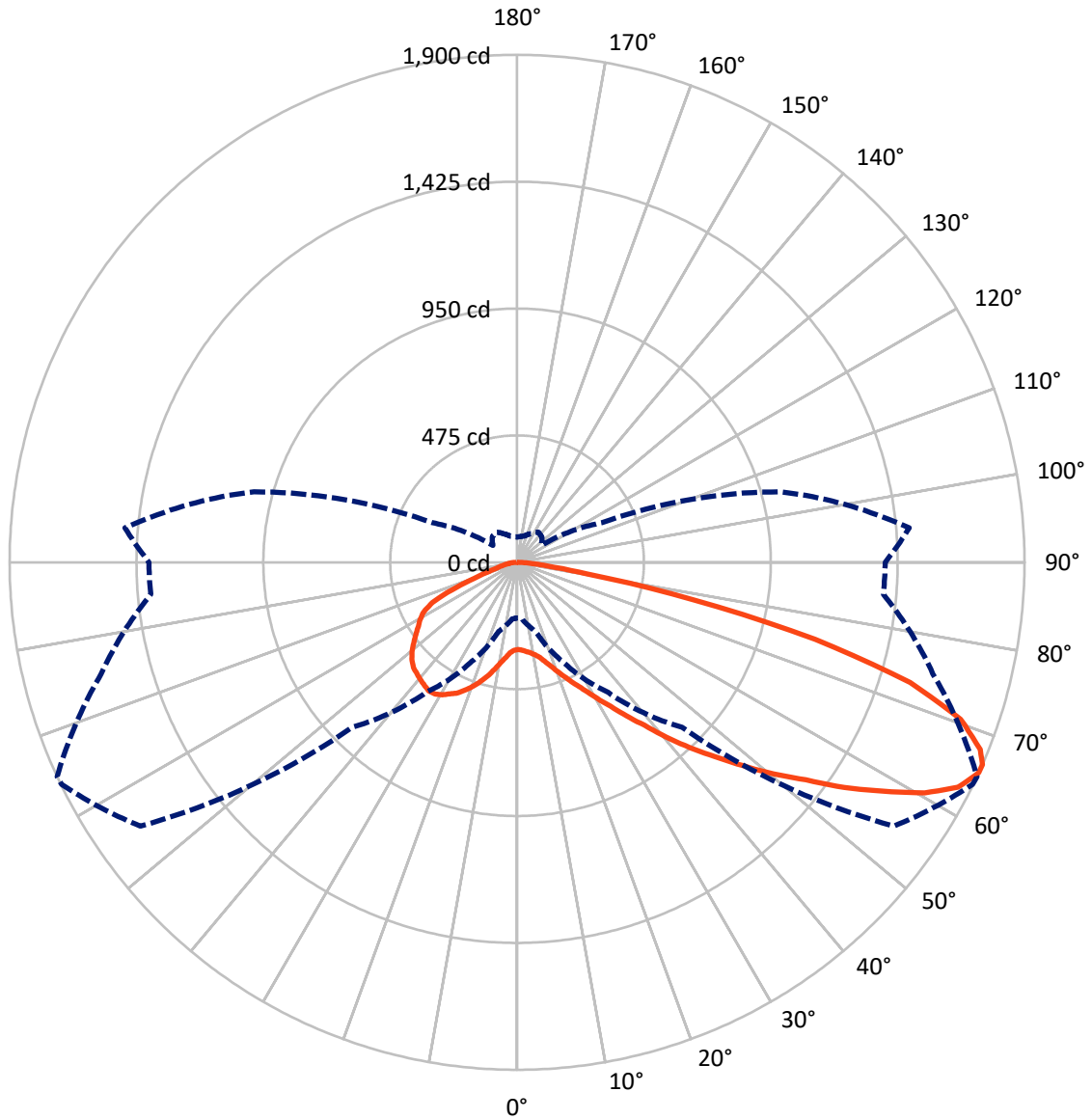
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P595004  
CATALOG NUMBER: IST-PA1A-830-U-T2U

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P595004  
 CATALOG NUMBER: IST-PA1A-830-U-T2U

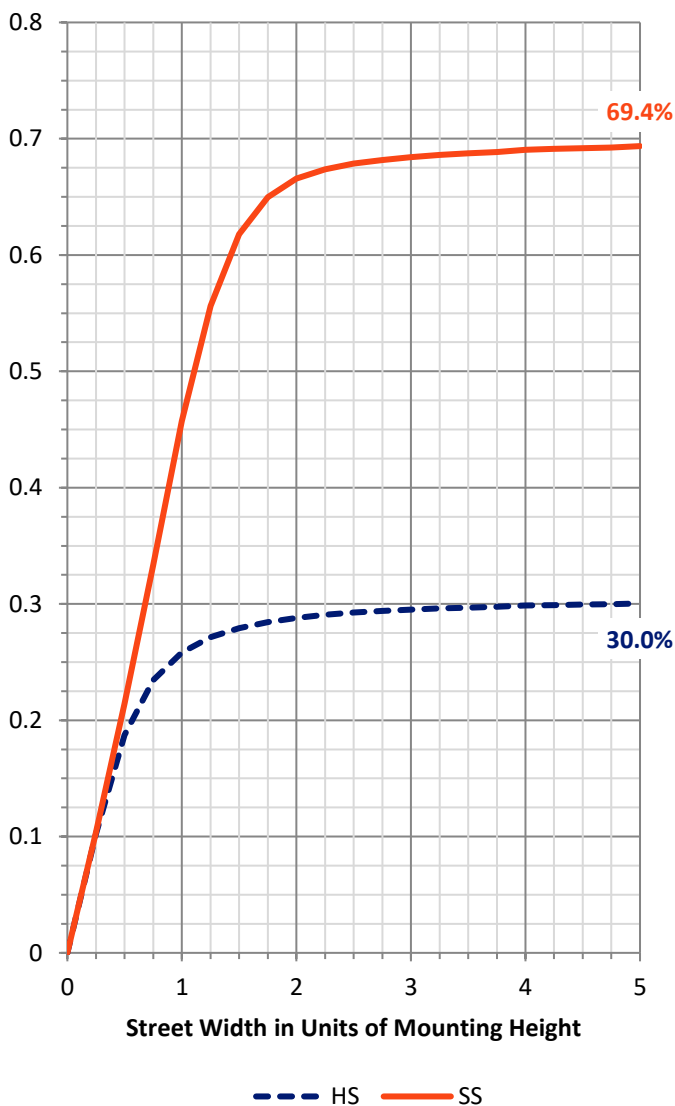
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	994.7	0.0	994.7
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2281.3	0.0	2281.3
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3276.0	0.0	3276.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	1.0
10°-20°	116.1	3.5
20°-30°	227.4	6.9
30°-40°	371.6	11.3
40°-50°	589.8	18.0
50°-60°	758.5	23.2
60°-70°	684.0	20.9
70°-80°	424.3	13.0
80°-90°	71.1	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°	3276.0	100.0
0°-180°	3276.0	100.0

**Coefficient of Utilization**



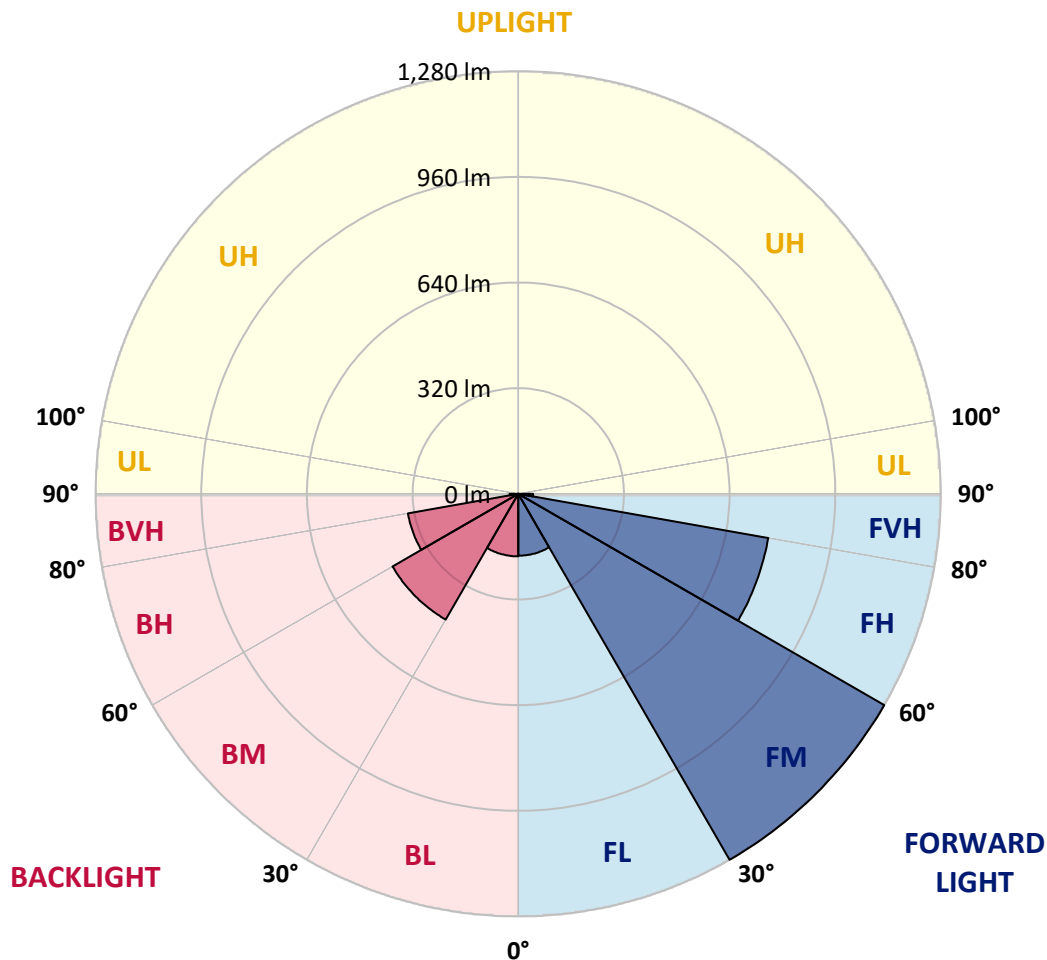
REPORT NUMBER: P595004  
 CATALOG NUMBER: IST-PA1A-830-U-T2U

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.3	5.7			
FM (30°-60°)	1280.1	39.1			
FH (60°-80°)	768.9	23.5			G1/1800
FVH (80°-90°)	45.0	1.4			G1/100
BL (0°-30°)	189.5	5.8	B1/500		
BM (30°-60°)	439.7	13.4	B1/1000		
BH (60°-80°)	339.4	10.4	B1/500		G1/500
BVH (80°-90°)	26.1	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





REPORT NUMBER: P595004  
 CATALOG NUMBER: IST-PA1A-830-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	327.3	328.1	328.9	327.3	328.9	329.7	328.1	328.1	328.9	327.3	327.3
5°	325.0	325.7	327.3	328.1	331.3	332.9	333.7	333.7	334.5	333.7	334.5
7.5°	318.6	318.6	321.8	323.4	328.1	333.7	336.9	341.6	341.6	342.4	344.8
10°	325.0	325.0	327.3	329.7	333.7	338.5	343.2	348.8	350.4	355.9	359.1
12.5°	334.5	336.1	339.3	342.4	347.2	352.8	356.7	362.3	363.1	368.6	375.0
15°	350.4	352.0	353.6	357.5	363.9	371.0	378.2	382.2	383.7	386.9	391.7
17.5°	374.2	375.8	376.6	379.0	383.7	393.3	403.6	406.8	408.4	408.4	412.3
20°	414.7	413.9	412.3	407.6	407.6	416.3	430.6	436.2	437.8	434.6	432.2
22.5°	461.6	460.8	454.5	448.9	444.9	446.5	460.8	470.3	469.5	463.2	453.7
25°	522.8	524.4	514.0	499.7	487.8	484.6	493.4	502.9	504.5	492.6	476.7
27.5°	595.9	593.5	587.9	564.9	541.8	527.5	532.3	542.6	543.4	530.7	505.3
30°	681.7	677.7	663.4	639.6	603.8	584.0	580.0	588.7	591.1	569.7	533.1
32.5°	777.0	773.0	754.8	718.2	679.3	645.9	633.2	645.1	643.5	618.9	568.1
35°	892.2	891.4	858.1	812.8	763.5	719.0	701.5	701.5	706.3	669.8	612.6
37.5°	1046.4	1052.7	1003.5	932.7	863.6	804.0	774.6	773.0	773.8	734.1	662.6
40°	1185.4	1183.0	1154.4	1088.5	987.6	911.3	867.6	858.1	860.4	809.6	727.8
42.5°	1265.6	1268.0	1260.9	1232.3	1144.1	1047.9	973.3	947.8	948.6	885.1	789.7
45°	1315.7	1318.1	1317.3	1331.6	1296.6	1206.0	1099.6	1040.8	1037.6	970.9	862.8
47.5°	1344.3	1345.9	1356.2	1385.6	1414.2	1393.6	1239.4	1144.1	1137.7	1051.1	935.9
50°	1312.5	1313.3	1354.6	1424.5	1494.5	1557.2	1382.4	1246.6	1245.0	1140.1	1007.4
52.5°	1145.7	1160.0	1251.3	1397.5	1554.0	1673.2	1547.7	1367.3	1353.8	1224.3	1078.9
55°	935.1	941.5	1046.4	1232.3	1542.9	1744.7	1672.4	1497.6	1488.1	1318.1	1148.8
57.5°	730.1	736.5	861.2	1016.2	1372.9	1740.7	1760.6	1638.3	1616.8	1399.9	1218.8
60°	471.1	491.0	635.6	826.3	1111.5	1620.0	1805.1	1773.3	1753.5	1480.9	1278.3
62.5°	320.2	323.4	413.9	612.6	831.8	1316.5	1801.9	1856.7	1853.6	1562.0	1337.9
65°	208.2	212.9	267.7	414.7	595.1	873.9	1722.5	1897.3	1900.4	1612.0	1376.9
66°	176.4	179.6	221.7	348.8	521.2	692.8	1652.6	1894.1	1900.4	1635.1	1388.8
67.5°	153.3	155.7	177.2	257.4	425.9	498.2	1470.6	1852.0	1870.3	1656.5	1403.9
70°	131.9	135.1	154.9	175.6	304.3	290.8	931.2	1743.9	1762.2	1666.9	1413.4
72.5°	108.8	111.2	131.1	158.9	220.9	195.4	410.8	1492.9	1538.9	1628.7	1398.3
75°	85.8	87.4	105.7	132.7	169.2	152.5	178.8	1094.8	1152.8	1435.7	1339.5
77.5°	66.7	67.5	81.8	103.3	154.9	118.4	110.4	533.1	674.5	1109.1	1179.8
80°	46.1	47.7	60.4	77.9	113.6	93.8	73.9	208.2	264.6	736.5	894.6
82.5°	30.2	31.0	41.3	58.8	75.5	89.8	48.5	100.9	111.2	339.3	387.7
85°	20.7	20.7	29.4	36.5	51.6	59.6	31.8	53.2	58.0	128.7	46.9
87.5°	10.3	10.3	14.3	19.1	24.6	23.0	19.1	19.1	19.1	42.1	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595004  
 CATALOG NUMBER: IST-PA1A-830-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5	326.5
2.5°	328.1	328.1	328.9	329.7	330.5	330.5	331.3	331.3	330.5	331.3	332.1
5°	335.3	336.1	337.7	340.0	344.0	348.0	352.0	354.3	356.7	357.5	355.9
7.5°	346.4	348.0	353.6	359.9	366.3	375.8	381.4	384.5	386.1	387.7	386.1
10°	360.7	363.9	371.8	382.9	394.1	406.0	412.3	417.1	417.9	419.5	417.9
12.5°	377.4	382.9	394.9	410.8	424.3	436.2	440.9	437.8	430.6	427.4	426.6
15°	397.2	402.8	419.5	439.4	455.2	460.8	453.7	443.3	435.4	434.6	433.8
17.5°	414.7	422.7	445.7	466.4	481.5	475.9	456.8	450.5	448.1	451.3	450.5
20°	437.0	443.3	466.4	491.8	499.7	478.3	464.8	460.8	458.4	458.4	456.8
22.5°	455.2	460.0	487.8	515.6	510.9	479.9	470.3	462.4	454.5	453.7	451.3
25°	476.7	478.3	507.7	537.9	512.5	481.5	464.8	451.3	443.3	440.9	441.7
27.5°	496.6	500.5	526.0	553.0	508.5	472.7	445.7	428.2	416.3	415.5	415.5
30°	522.0	522.0	545.0	569.7	499.7	450.5	414.7	389.3	379.8	379.0	377.4
32.5°	550.6	545.8	568.1	581.6	480.7	420.3	372.6	344.0	328.9	325.7	323.4
35°	590.3	580.0	595.9	584.0	461.6	377.4	319.4	286.8	275.7	270.9	270.9
37.5°	636.4	621.3	638.0	576.8	432.2	327.3	263.8	239.1	227.2	220.1	222.5
40°	690.4	671.4	680.9	568.9	400.4	271.7	217.7	202.6	188.3	178.8	178.8
42.5°	754.0	722.2	729.4	560.9	355.1	223.3	188.3	178.0	166.8	157.3	159.7
45°	815.2	784.2	777.0	553.0	307.5	190.7	176.4	169.2	158.9	147.8	147.8
47.5°	885.9	846.1	819.1	538.7	260.6	180.4	179.6	169.2	149.4	133.5	131.9
50°	952.6	916.1	857.3	517.2	234.4	189.1	178.8	154.1	135.1	124.7	123.9
52.5°	1023.3	985.2	888.3	491.0	220.9	185.1	164.5	141.4	127.1	116.8	114.4
55°	1093.2	1073.4	916.1	465.6	199.4	172.4	152.5	133.5	118.4	108.8	107.3
57.5°	1172.7	1164.7	939.9	440.2	166.1	156.5	143.8	127.9	113.6	106.5	105.7
60°	1241.8	1269.6	968.5	421.1	141.4	144.6	139.8	127.1	116.8	108.8	108.8
62.5°	1314.9	1370.5	993.9	396.5	123.1	137.4	140.6	126.3	112.8	105.7	105.7
65°	1378.5	1473.8	1020.1	351.2	110.4	131.9	138.2	117.6	101.7	96.1	94.5
66°	1405.5	1503.2	1028.1	323.4	105.7	127.9	134.3	112.8	96.9	92.2	91.4
67.5°	1437.2	1549.3	1037.6	263.8	98.5	119.2	125.5	105.7	89.0	85.8	84.2
70°	1481.7	1558.8	1032.1	172.4	85.8	102.5	112.0	94.5	79.4	77.1	74.7
72.5°	1486.5	1493.7	976.4	108.8	74.7	88.2	98.5	85.0	69.9	67.5	65.9
75°	1407.9	1323.6	826.3	77.9	65.9	77.9	86.6	73.9	58.0	54.8	53.2
77.5°	1202.1	1050.3	594.3	58.0	57.2	66.7	72.3	64.4	48.5	46.1	45.3
80°	843.8	712.7	297.9	43.7	45.3	55.6	60.4	54.0	40.5	37.3	35.8
82.5°	341.6	302.7	102.5	32.6	34.2	42.1	51.6	44.5	31.0	27.0	23.8
85°	38.9	65.9	44.5	22.2	23.0	28.6	35.0	27.0	18.3	15.1	12.7
87.5°	7.9	14.3	15.9	8.7	7.9	11.1	15.9	9.5	6.4	2.4	3.2
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)