

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: P400666

Luminaire Tested: **TT-D5-827-U-RW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-79-08
Report Number: P400666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P197998)
Test Lab: INNOVATION CENTER
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D5-827-U-RW
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
2700K, 80 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6998 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 74.7
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



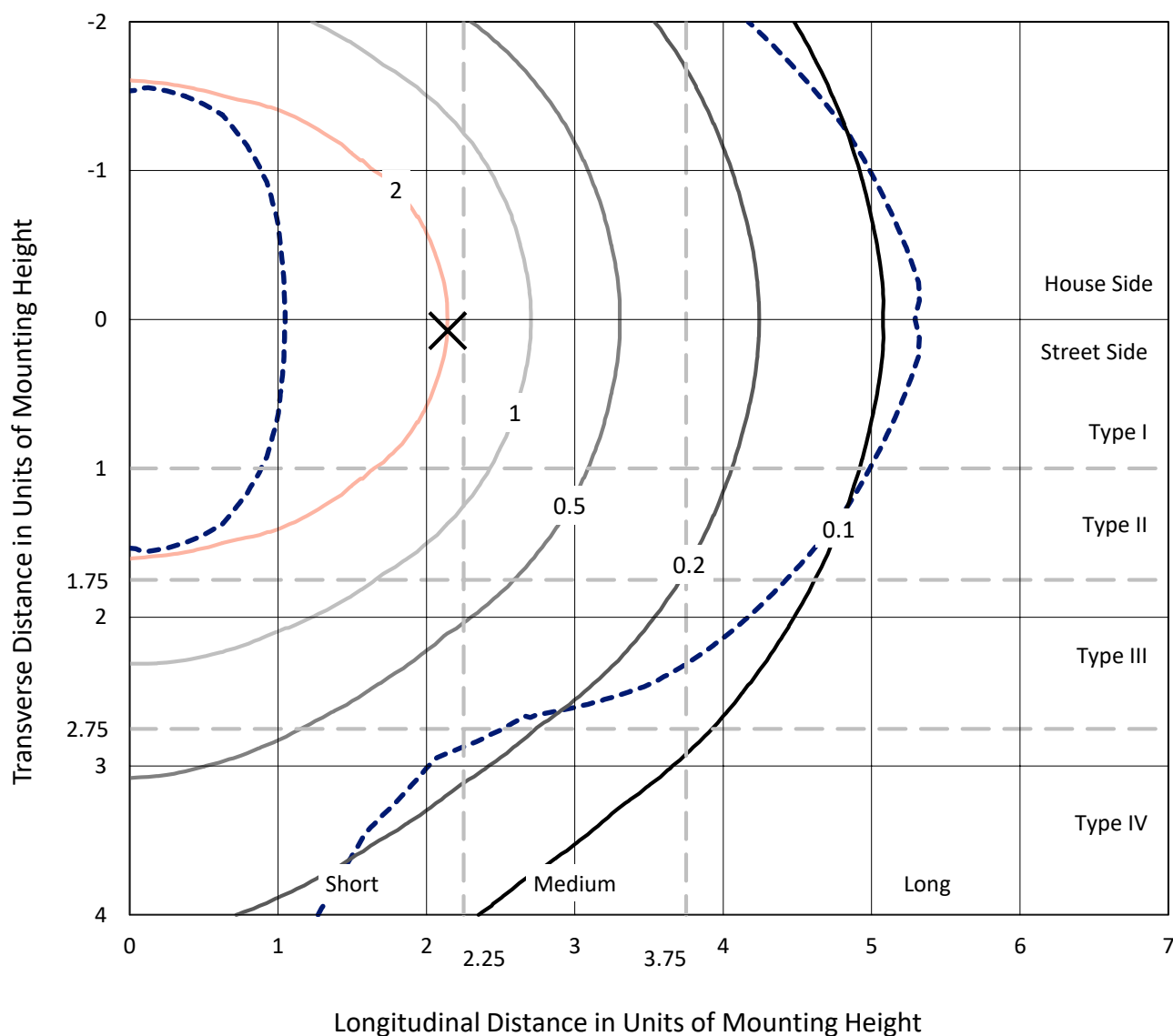
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

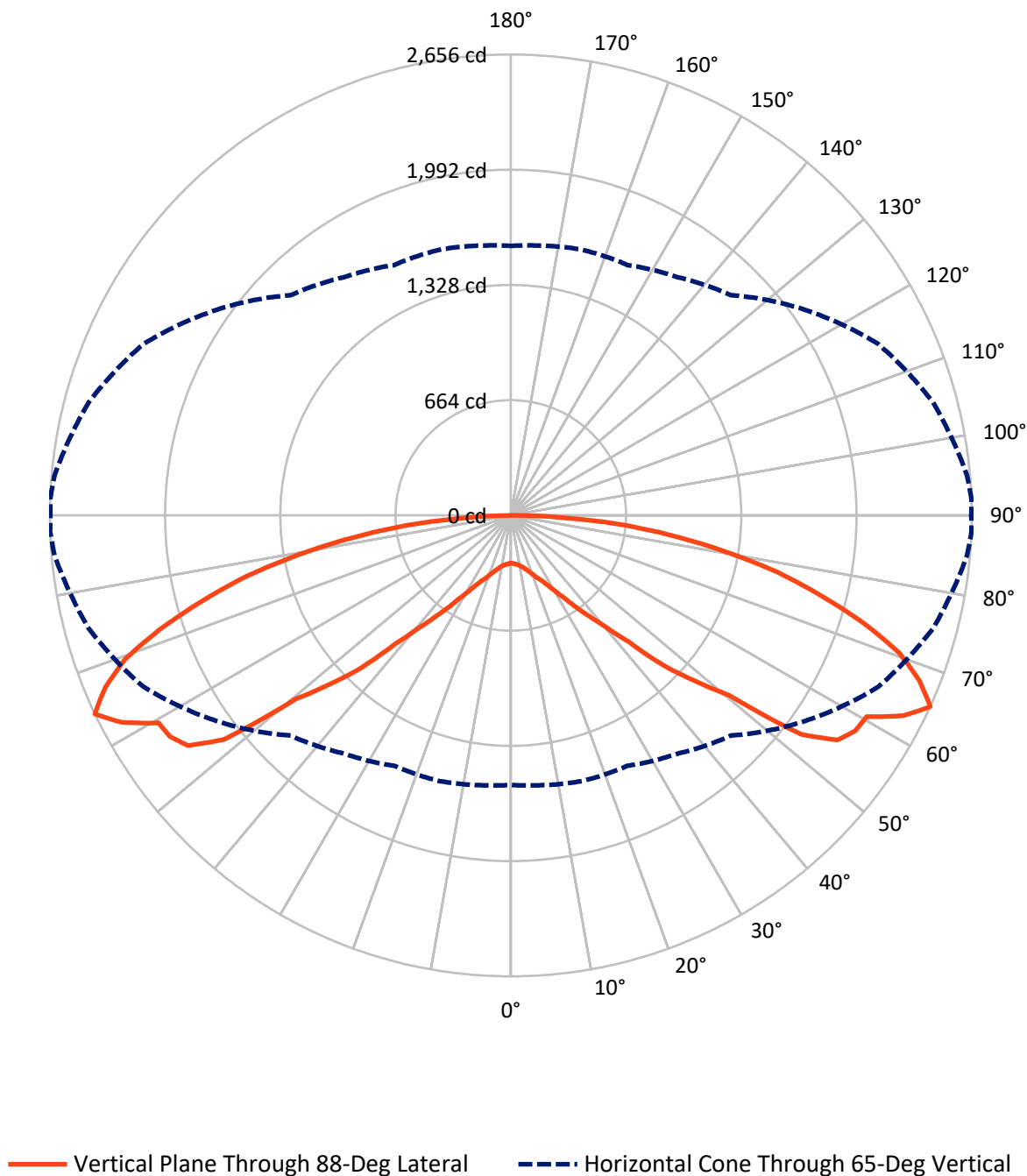


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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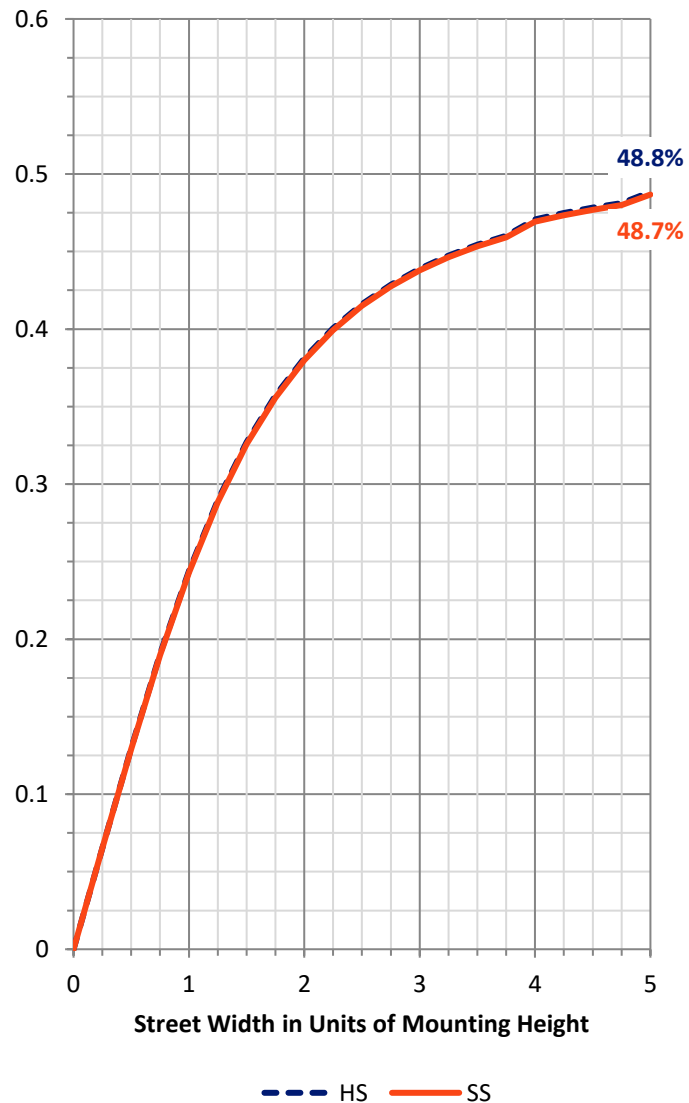
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3499.0	0.0	3499.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3499.0	0.0	3499.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6998.0	0.0	6998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.4
10°-20°	95.3	1.4
20°-30°	210.5	3.0
30°-40°	419.4	6.0
40°-50°	802.8	11.5
50°-60°	1436.9	20.5
60°-70°	1904.1	27.2
70°-80°	1589.0	22.7
80°-90°	512.7	7.3
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°	6998.0	100.0
0°-180°	6998.0	100.0

Coefficient of Utilization



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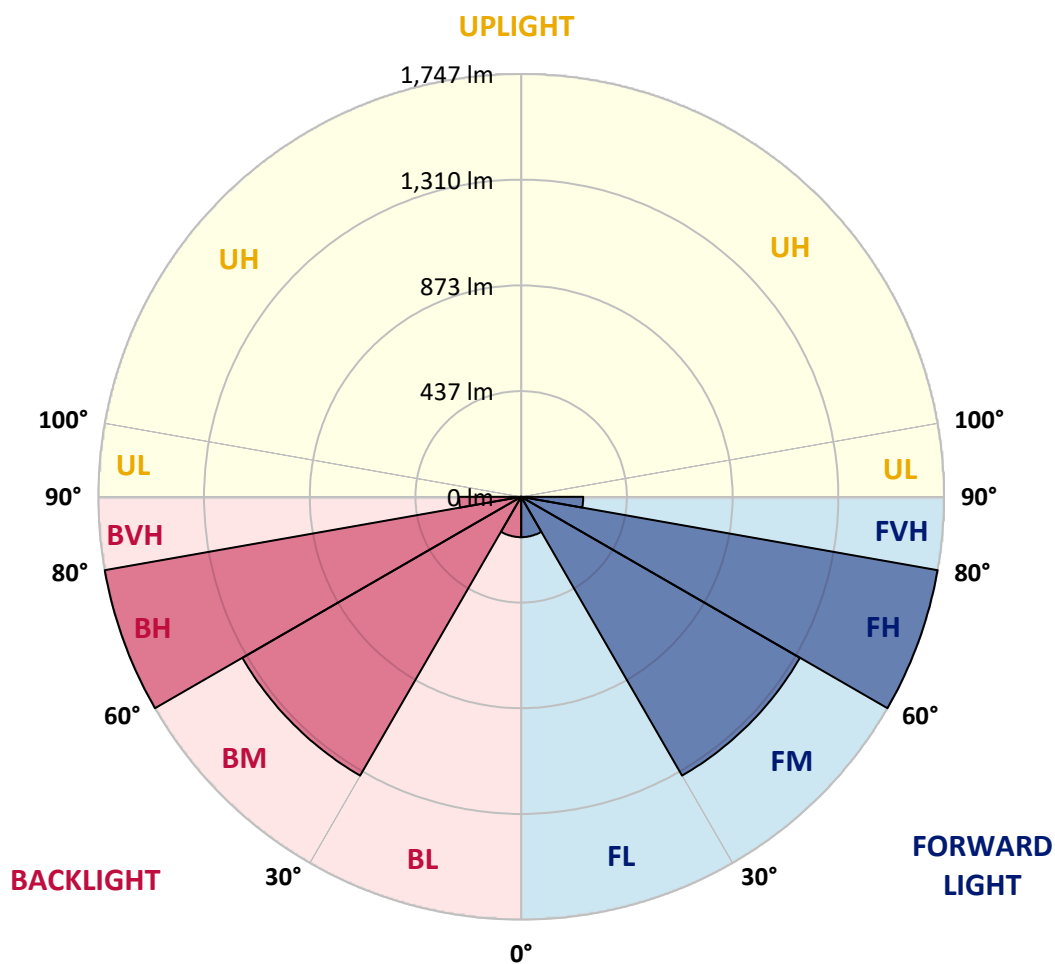
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	166.6	2.4			
FM	(30°-60°)	1329.5	19.0			
FH	(60°-80°)	1746.5	25.0			G1/1800
FVH	(80°-90°)	256.3	3.7			G3/500
BL	(0°-30°)	166.6	2.4	B1/500		
BM	(30°-60°)	1329.5	19.0	B2/2500		
BH	(60°-80°)	1746.5	25.0	B3/2500		G1/1800
BVH	(80°-90°)	256.3	3.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0	274.0
2.5°	276.8	276.8	276.8	276.8	278.1	278.1	278.1	278.1	278.1	278.1	278.1
5°	280.9	280.9	282.3	282.3	283.7	283.7	283.7	283.7	282.3	282.3	282.3
7.5°	287.8	289.2	290.5	290.5	290.5	289.2	287.8	287.8	286.4	286.4	286.4
10°	300.2	300.2	301.6	301.6	300.2	298.8	297.4	296.0	296.0	296.0	294.7
12.5°	315.3	315.3	316.7	315.3	312.6	311.2	308.4	307.1	307.1	305.7	305.7
15°	336.0	338.7	338.7	334.6	330.5	326.3	325.0	322.2	322.2	322.2	322.2
17.5°	367.7	366.3	360.8	356.6	353.9	347.0	344.2	342.9	340.1	340.1	340.1
20°	403.5	400.7	393.8	388.3	382.8	374.5	369.0	366.3	364.9	363.5	363.5
22.5°	443.4	439.3	429.6	425.5	414.5	406.2	399.3	393.8	389.7	388.3	391.1
25°	484.7	484.7	476.4	465.4	454.4	442.0	432.4	425.5	420.0	418.6	417.2
27.5°	528.8	531.5	520.5	509.5	497.1	480.6	470.9	461.3	459.9	458.5	457.2
30°	575.6	581.1	570.1	559.0	542.5	526.0	513.6	509.5	505.3	508.1	508.1
32.5°	633.4	636.2	623.8	615.5	593.5	576.9	565.9	563.2	564.6	563.2	567.3
35°	700.9	696.7	687.1	670.6	651.3	636.2	627.9	633.4	648.6	654.1	651.3
37.5°	775.2	760.1	754.6	733.9	716.0	703.6	706.4	720.2	732.5	742.2	739.4
40°	830.3	833.1	817.9	798.6	782.1	779.4	794.5	812.4	835.8	844.1	846.8
42.5°	886.8	903.3	885.4	866.1	857.9	863.4	885.4	921.2	973.5	1001.1	996.9
45°	951.5	969.4	950.1	935.0	933.6	954.2	1002.4	1096.1	1173.2	1228.3	1233.8
47.5°	1019.0	1032.7	1014.8	1005.2	1019.0	1058.9	1141.5	1266.8	1349.4	1414.1	1425.2
50°	1104.3	1098.8	1085.1	1083.7	1114.0	1186.9	1298.5	1425.2	1573.9	1616.6	1630.3
52.5°	1188.3	1167.7	1164.9	1171.8	1225.5	1308.1	1456.8	1706.1	1925.0	2079.2	2095.7
55°	1266.8	1243.4	1248.9	1266.8	1342.5	1467.8	1674.4	1978.7	2170.1	2278.9	2284.4
57.5°	1338.4	1324.6	1337.0	1361.8	1474.7	1635.8	1854.8	2105.4	2250.0	2327.1	2340.8
60°	1411.4	1408.6	1423.8	1469.2	1590.4	1733.6	1916.7	2138.4	2283.0	2342.2	2356.0
62.5°	1480.2	1489.9	1509.2	1553.2	1646.9	1758.4	1936.0	2207.3	2423.5	2517.1	2540.5
65°	1553.2	1561.5	1584.9	1591.8	1675.8	1794.2	2066.8	2336.7	2518.5	2639.6	2656.2
67.5°	1619.3	1630.3	1622.1	1616.6	1689.5	1794.2	2040.7	2277.5	2429.0	2521.2	2539.1
70°	1682.7	1670.3	1637.2	1594.5	1615.2	1686.8	1912.6	2117.8	2270.6	2357.4	2375.3
72.5°	1699.2	1682.7	1594.5	1496.8	1466.5	1520.2	1728.1	1909.9	2035.2	2116.4	2127.4
75°	1656.5	1622.1	1473.4	1338.4	1280.6	1334.3	1507.8	1663.4	1751.5	1839.6	1846.5
77.5°	1485.7	1463.7	1298.5	1134.6	1069.9	1109.8	1254.4	1364.6	1466.5	1551.8	1568.4
80°	1220.0	1200.7	1054.8	921.2	834.4	862.0	968.0	1056.1	1153.9	1221.4	1242.0
82.5°	897.8	895.0	790.4	665.1	604.5	601.7	681.6	768.3	842.7	907.4	921.2
85°	564.6	564.6	493.0	417.2	353.9	355.3	403.5	466.8	560.4	601.7	605.9
87.5°	191.4	181.8	169.4	137.7	110.2	99.1	106.0	121.2	184.5	228.6	236.8
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°
0°	274.0
2.5°	278.1
5°	282.3
7.5°	286.4
10°	294.7
12.5°	307.1
15°	320.8
17.5°	340.1
20°	363.5
22.5°	389.7
25°	417.2
27.5°	458.5
30°	506.7
32.5°	565.9
35°	652.7
37.5°	742.2
40°	853.7
42.5°	1007.9
45°	1220.0
47.5°	1425.2
50°	1615.2
52.5°	2061.3
55°	2289.9
57.5°	2339.5
60°	2351.9
62.5°	2528.1
65°	2653.4
67.5°	2537.8
70°	2371.1
72.5°	2119.2
75°	1857.5
77.5°	1568.4
80°	1225.5
82.5°	921.2
85°	596.2
87.5°	230.0
90°	0.0

(END OF REPORT)